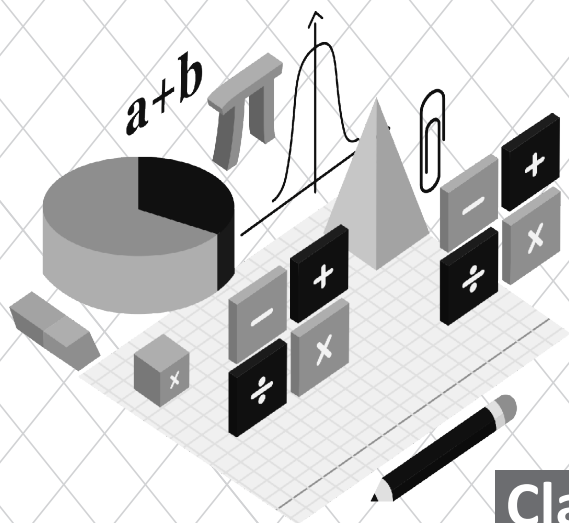


Maths Link

Teacher Manual



Class 1 to 5

Maths Link (TM)

CLASS - I

CHAPTER - 1

Start Up (Pg-5)

- ◆ B S
- ◆ H L
- ◆ T S

(Pg-6)

- | | | | |
|------------|---|-----------|---|
| ◆ Cat | ✓ | Rat | ✗ |
| ◆ Ball | ✗ | Bat | ✓ |
| ◆ Honeybee | ✗ | Butterfly | ✓ |
| ◆ Elephant | ✓ | Rabbit | ✗ |

(Pg-7)

- | | | | |
|---------------|---|--------------|---|
| ◆ Log | ✓ | Stick | ✗ |
| ◆ Tree | ✗ | Banyan Tree | ✓ |
| ◆ Pen | ✗ | Blue Pen | ✓ |
| ◆ Pink Candle | ✓ | White Candle | ✗ |

(Pg - 8)

- | | | | |
|-----------------|---|--------------|---|
| ◆ Traffic Light | ✗ | Street Light | ✓ |
| ◆ Building | ✓ | House | ✗ |
| ◆ Camel | ✓ | Frog | ✗ |
| ◆ Plant | ✗ | Tree | ✓ |

(Pg - 9)

- | | | | |
|-----------|---|---------|---|
| ◆ Balloon | ✗ | Chair | ✓ |
| ◆ Kite | ✗ | Bag | ✓ |
| ◆ Bucket | ✓ | Bottle | ✗ |
| ◆ Car | ✓ | Bicycle | ✗ |

(Pg - 10)

◆ Apple	✗	Basket	✓
◆ Colours	✓	Pen	✗
◆ Bird on bark	✓	Birds	✗
◆ Swan	✗	3 Swans	✓

(Pg - 11)

◆ N	
◆	F
◆ ☒	☒

(Pg - 12)

◆ Monkey	☒	Crocodile	✗
◆ Aeroplane	✓	Car	✗
◆ Ball in the air	✓	Ball on the ground	✗
◆ Fan	✓	Lamp	✗

CHAPTER - 2

(Pg - 15)

Potato - 5	Tomato - 6	Cauliflower - 4
Brinjal - 3	Pumpkin - 1	Capsicum - 5
Raddish - 6	Onion - 3	Cabbage - 2

(Pg - 18)

Apples - 6	Balloons - 8	Books - 5
Fishes - 9	Strawberries - 3	

(Pg - 19)

◆ <u>67</u>	◆ <u>45</u>	◆ <u>12</u>	◆ <u>23</u>	◆ <u>89</u>	◆ <u>56</u>	◆ <u>78</u>
◆ <u>45</u>	◆ <u>78</u>	◆ <u>34</u>	◆ <u>89</u>	◆ <u>12</u>	◆ <u>23</u>	◆ <u>67</u>
◆ <u>567</u>	◆ <u>345</u>	◆ <u>678</u>	◆ <u>234</u>	◆ <u>789</u>		

(Pg - 20)

1. $8 > 2$	4. $7 < 8$	7. $3 < 7$
2. $7 > 4$	5. $9 > 1$	8. $5 = 5$
3. $6 = 6$	6. $1 < 4$	9. $6 < 9$
◆ (6), (8), (7)		

◆ (6), (8), (2)
(Pg - 22)

- | | |
|--------------------|------------------|
| ◆ 1. 2, 3, 4, 8, 9 | 2. 2, 3, 4, 7, 8 |
| 3. 2, 4, 5, 7, 9 | 4. 2, 3, 5, 7, 9 |
| ◆ 1. 8, 5, 4, 2, 1 | 2. 8, 7, 5, 3, 2 |
| 3. 9, 6, 5, 3, 2 | 4. 9, 7, 5, 3, 1 |

CHAPTER - 3

(Pg - 31)

- | | | |
|-----------------------|-----------------------|--------------|
| ◆ <u>23</u> 24 | 27 <u>28</u> 29 | 46 <u>47</u> |
| <u>35</u> 36 | 37 <u>38</u> 39 | 43 <u>44</u> |
| <u>28</u> 29 | 48 <u>49</u> 50 | 27 <u>28</u> |
| <u>48</u> 49 | 39 <u>40</u> 41 | 35 <u>36</u> |
| ◆ <u>24</u> | <u>31</u> | |
| <u>32</u> | <u>32</u> , <u>34</u> | |
| <u>28</u> , <u>30</u> | <u>40</u> | |
| | 43, 45 | |

(Pg - 33)

- | | |
|-----------------------------|-----------------------------|
| (2) <u>48</u> 18 | (5) <u>50</u> 18 |
| (3) <u>30</u> 12 | (6) <u>45</u> 15 |
| (4) <u>38</u> 16 | (7) <u>47</u> 25 |
| | (8) <u>29</u> 7 |
- ◆ 1. 18, 25, 37, 46, 49 2. 14, 23, 35, 38, 45
 ◆ 1. 46, 39, 32, 21, 12 2. 48, 42, 37, 26, 15

CHAPTER - 4

(Pg - 36)

- ◆ 1. $5 + 2 = 7$ 2. $4 + 4 = 8$ 3. $3 + 4 = 7$

(Pg - 37, 38)

- | | |
|---------------|---------------|
| ◆ $5 + 3 = 8$ | ◆ $3 + 4 = 7$ |
| ◆ $4 + 2 = 6$ | ◆ $6 + 3 = 9$ |

(Pg - 38)

- ◆ 9, 8, 7

8, 8
4, 9
6, 5

(Pg - 41)

◆ $2 + 9 = 11$ ◆ $5 + 8 = 13$ ◆ $8 + 7 = 15$

(Pg - 42)

◆ $7 + 3 = 10$ ◆ $9 + 6 = 15$ ◆ $5 + 9 = 14$

◆ $7 + 7 = 14$

(Pg - 43)

◆ $4 + 7 = 11$ ◆ $7 + 8 = 15$

◆ $12 + 2 = 14$, $13 + 6 = 19$, $11 + 7 = 18$, $13 + 4 = 17$,
 $18 + 1 = 19$, $15 + 4 = 19$, $13 + 2 = 15$, $10 + 9 = 19$,
 $14 + 1 = 15$, $14 + 4 = 18$

(Pg - 45)

◆ $10 + 7 = 17$ ◆ $11 + 5 = 16$ ◆ $14 + 5 = 19$

(Pg - 48)

◆ $13 + 1 = 14$ $1 + 17 = 18$

$15 + 0 = 15$ $12 + 1 = 13$

$13 + 0 = 13$ $11 + 0 = 11$

$1 + 18 = 19$ $14 + 1 = 15$

$0 + 17 = 17$ $1 + 15 = 16$

$16 + 0 = 16$ $0 + 10 = 10$

◆ $14 + 3 = 17$ $3 + 14 = 17$

$13 + 2 = 15$ $2 + 13 = 15$

$12 + 6 = 18$ $6 + 12 = 18$

$11 + 4 = 15$ $4 + 11 = 15$

$1 + 18 = 19$ $18 + 1 = 19$

$17 + 0 = 17$ $0 + 17 = 17$

$15 + 4 = 19$ $4 + 15 = 19$

(Pg - 49)

◆ $15 + 3 = 18$ ◆ $12 + 6 = 18$

(Pg - 50)

$$17 + 2 = 19$$

$$9 + 7 = 16$$

$$12 + 5 = 17$$

$$14 + 3 = 17$$

CHAPTER - 5

(Pg - 52)

$$\blacklozenge \quad 6 - 3 = 3$$

(Pg - 53)

$$\blacklozenge \quad 5 - 2 = 3$$

$$\blacklozenge \quad 8 - 1 = 7$$

(Pg - 54)

$$\blacklozenge \quad 9 - 0 = 9$$

$$6 - 6 = 0$$

$$8 - 8 = 0$$

$$3 - 1 = 2$$

$$4 - 1 = 3$$

$$3 - 3 = 0$$

$$7 - 0 = 7$$

$$1 - 1 = 0$$

$$4 - 4 = 0$$

$$5 - 0 = 5$$

$$4 - 0 = 4$$

$$3 - 0 = 3$$

$$9 - 1 = 8$$

$$6 - 0 = 6$$

$$8 - 1 = 7$$

$$8 - 0 = 8$$

$$2 - 2 = 0$$

$$1 - 0 = 1$$

(Pg - 55)

$$5 - 4 = 1$$

$$8 - 5 = 3$$

$$9 - 4 = 5$$

$$4 - 4 = 0$$

$$6 - 3 = 3$$

$$6 - 2 = 4$$

$$7 - 5 = 2$$

$$5 - 2 = 3$$

(Pg - 56)

Rapid

$$1. \quad 4 + 2 = 6$$

$$2. \quad 5 - 4 = 1$$

(Pg - 57)

$$1. \quad 13, 14, 15, 16, 17, 18$$

$$2. \quad 12, 13, 14, 15, 16$$

$$18 - 5 = 13$$

$$16 - 4 = 12$$

$$3. \quad 11, 12, 13, 14, 15, 16, 17, 18$$

$$18 - 7 = 11$$

(Pg - 58)

$$1. \quad 19 - 7 = 12$$

$$2. \quad 15 - 8 = 7$$

$$3. \quad 12 - 4 = 8$$

$$4. \quad 18 - 5 = 13$$

(Pg - 59)

$$5. \quad 13 - 8 = 5$$

$$6. \quad 11 - 5 = 6$$

$$\blacklozenge 13 - 7 = 6$$

$$17 - 9 = 8$$

$$15 - 7 = 8$$

$$12 - 6 = 6$$

(Pg - 60)

$$15 - 5 = 10$$

$$13 - 7 = 6$$

$$18 - 6 = 12$$

$$20 - 9 = 11$$

(Pg - 61)

$$12 - 5 = 7$$

$$17 - 8 = 9$$

$$18 - 6 = 12$$

$$19 - 9 = 10$$

CHAPTER - 6

(Pg - 64)

1. on

2. on

3. under

4. on

5. below

6. above

(Pg - 65)

Rat ✓

Dog ✗

Apple top

Car bottom

(Pg - 66)



(Pg - 67)



(Pg - 68)

Bananas



Grapes



Car

(Pg - 69)

Brick ✗

Apple ✓

Pencil ✓

Dice ✗

Box ✗

Book ✗

Drum ✓

Log ✓

Ball ✓

(Pg - 71)

7 circles,	7 triangles
5 rectangles,	5 squares

CHAPTER - 7

(Pg - 73)

- ◆ 3 tens + 3 ones = 33
- ◆ 4 tens + 5 ones = 45
- ◆ 15 = Fifteen
- ◆ 27 = Twenty Seven
- ◆ 38 = Thirty Eight
- ◆ 45 = Forty Five
- ◆ 50 = Fifty
- ◆ 41 = Forty One

(Pg - 77)

- | | |
|-------------------------|--------------------------|
| 1. 8 tens + 1 one = 81 | 2. 8 tens + 2 ones = 82 |
| 3. 8 tens + 3 ones = 83 | 4. 8 tens + 4 ones = 84 |
| 5. 8 tens + 5 ones = 85 | 6. 8 tens + 6 ones = 86 |
| 7. 8 tens + 7 ones = 87 | 8. 8 tens + 8 ones = 88 |
| 9. 8 tens + 9 ones = 89 | 10. 9 tens + 0 ones = 90 |

(Pg - 78)

- | | |
|-------------------------|----------------------------|
| 1. 9 tens + 1 one = 91 | 2. 9 tens + 2 ones = 92 |
| 3. 9 tens + 3 ones = 93 | 4. 9 tens + 4 ones = 94 |
| 5. 9 tens + 5 ones = 95 | 6. 9 tens + 6 ones = 96 |
| 7. 9 tens + 7 ones = 97 | 8. 9 tens + 8 ones = 98 |
| 9. 9 tens + 9 ones = 99 | 10. 10 tens + 0 ones = 100 |

(Pg - 79)

- ◆ 99 = 9 tens 9 ones = Ninety Nine
- 83 = 8 tens 3 ones = Eighty Three
- 80 = 8 tens 0 ones = Eighty
- 92 = 9 tens 2 ones = Ninety Two

	64 = 6 tens	4 ones = Sixty Four
◆	59	Eighty Nine
	73	Fifty Five
	94	Seventy Six
	72	Ninety Six
	84	Sixty Eight
	51	Eighty Six
	62	Sixty

(Pg - 80)

◆	94	95	56	57	58	56	57
	55	56	72	73	74	63	64
	51	52	90	91	92	84	85
	88	89	60	61	62	92	93
	60	61	86	87	88	78	79
	72	73	98	99	100	81	82

(Pg - 80)

Circle the smallest number

53, 59

60, 16

68

Cross the biggest number

70, 98

98, 97

93

(Pg - 81)

◆ 90, ~~46~~, 51, 59, 66

◆ 82, 51, ~~15~~, 66, 41

◆ ~~37~~, 61, 65, 49, 55

◆ 63, 64, ~~25~~, 87, 50

◆ 71, ~~10~~, 75, 53, 27

Ascending Order

◆ 22, 46, 65, 79, 83

◆ 16, 36, 62, 78, 89

◆ 25, 47, 52, 78, 81

◆ 14, 42, 56, 60, 75

Descending Order

◆ 97, 85, 72, 44, 33

◆ 71, 66, 61, 45, 18

◆ 94, 87, 65, 59, 23

Pg - 81

Pg - 82

Pg - 82

CHAPTER - 8**(Pg - 85)**

Glass	✗	Jug	✓
Cup	✗	Tin	✓
Bucket	✓	Bottle	✗
Water tank	✓	Bottle	✗
Bucket	✗	Bathing tub	✓

(Pg - 86)

1. 5 cm

2. 6 cm

3. 7 cm

(Pg - 87)

5 solid cubes	✓	10 marbles	✓
6 hexagonal blocks	✓	5 pizzas	✓
1 football	✓		

CHAPTER - 9**(Pg - 91)**

♦ $3 + 3 + 3 + 3 + 3 = 15$; $5 \times 3 = 15$

♦ $3 + 3 = 6$; $2 \times 3 = 6$

(Pg - 92)

a) $4 \times 3 = 12$	b) $3 \times 5 = 15$
c) $3 \times 8 = 24$	d) $5 \times 6 = 30$

(Pg - 93)

♦ $4 \times 6 = 24$

$9 \times 0 = 0$

$5 \times 7 = 35$

$8 \times 2 = 16$

$3 \times 4 = 12$

$1 \times 1 = 1$

(Pg - 93)

♦ $3 \times 3 = 9$, $4 \times 1 = 4$, $2 \times 3 = 6$

$5 \times 2 = 10$

♦ $2 \times 5 = 10$ $9 \times 2 = 18$ $4 \times 10 = 40$

$7 \times 5 = 35$

$5 \times 5 = 25$

$10 \times 10 = 100$

$8 \times 2 = 16$

$7 \times 2 = 14$

$3 \times 10 = 30$

(Pg - 94)

$\blacklozenge \quad 5 \times 3 = 15,$

$3 \times 10 = 30,$

$7 \times 4 = 28,$

$4 \times 6 = 24,$

$5 \times 5 = 25,$

$8 \times 7 = 56$

(Pg - 98)

$2. \quad 5 \times 2 = 10$

$3. \quad 6 \times 3 = 18$

$4. \quad 4 \times 5 = 20$

$5. \quad 6 \times 4 = 24$

CHAPTER - 10

(Pg - 102)

$1. \quad 2 \times 5 = 10, 5 \times 2 = 10, 10 \div 5 = 2, 10 \div 2 = 5$

$2. \quad 7 \times 4 = 28, 4 \times 7 = 28, 28 \div 7 = 4, 28 \div 4 = 7$

$3. \quad 8 \times 5 = 40, 5 \times 8 = 40, 40 \div 8 = 5, 40 \div 5 = 8$

(Pg - 103)

$15 \div 5 = 3, 10 \div 5 = 2, 12 \div 3 = 4$

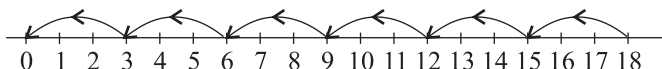
(Pg - 104)

$1. \quad 12 \div 3 = 4$

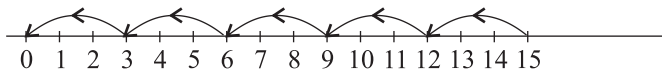
$2. \quad 8 \div 4 = 2$

$3. \quad 14 \div 2 = 7$

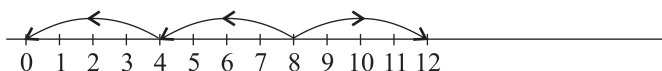
$1. \quad 18 \div 3 = 6$



$2. \quad 15 \div 3 = 5$



$3. \quad 12 \div 4 = 3$



(Pg - 105)

$1. \quad 18 \div 2 = 9$

(Pg - 106)

$2. \quad 18 \div 6 = 3$

$3. \quad 16 \div 4 = 4$

CHAPTER - 11

Do it yourself.

CHAPTER - 12

(Pg - 113)

◆ Bathing	✓	Play	✗
School	✓	Study	✗
◆ Sleep	✓	Watch TV	✗

(Pg - 114)

2. 11 : 00	11 O' Clock
3. 3 : 00	3 O' Clock
4. 4 : 00	4 O' Clock
5. 9 : 00	9 O' Clock
6. 7 : 00	7 O' Clock

(Pg - 115)

- | | | |
|---------------------|--------------|----------------------|
| 1. Monday | 2. Wednesday | 3. 7 |
| 4. Tuesday | 5. Thursday | 6. Tuesday, Thursday |
| 7. Saturday, Monday | | |

(Pg - 116)

- | | | | |
|-------|----------|------------|---------|
| 1. 12 | 2. March | 3. October | 4. June |
|-------|----------|------------|---------|

Fill in the blanks.

- | | | | |
|----------|--------|--------------|-------------|
| 1. April | 2. May | 3. September | 4. February |
|----------|--------|--------------|-------------|

CHAPTER - 13

Do it yourself.

CHAPTER - 14

(Pg - 122)

Green = 2	Pink = 6	Red = 7
Blue = 9	Yellow = 5	

(Pg - 123)

- (a) = 19 (b) = 10 (c) = 12 (d) = 16 (e) = 14

◆ B

◆ 5

◆ A
(Pg - 124)

◆ Notebook	=	2
Pencil	=	3
Eraser	=	2
Text book	=	4

- | | | |
|-------------|---------------------|---------------------|
| 1. 4 | 2. 3 | 3. Eraser, Notebook |
| 4. Textbook | 5. Notebook, Eraser | |

CLASS - II

Chapter 1

Practice Time 1.1

- | | | |
|---|------------------|-----------------------|
| A | 2. $60 + 7 = 67$ | 3. $40 + 9 = 49$ |
| | 4. $80 + 3 = 83$ | 5. $90 + 6 = 96$ |
| | 6. $30 + 4 = 34$ | |
| B | 1. 45 | 2. 3 tens and 7 ones |
| | 3. 72 | 4. 4 tens and 5 ones |
| | 5. 99 | 6. 9 tens and 6 ones |
| | 7. 53 | 8. 7 tens and 4 ones |
| | 9. 87 | 10. 5 tens and 7 ones |

Practice Time 1.2

- | | | | |
|-------|-------|-------|-------|
| 1. 53 | 2. 45 | 3. 31 | 4. 76 |
| 5. 85 | 6. 26 | 7. 32 | 8. 64 |

Practice Time 1.3

- | | |
|-------------------|----------------------|
| 1. 12, 15, 18, 21 | 2. 17, 20, 23, 26 |
| 3. 45, 55, 65, 75 | 4. 9, 11, 13, 15, 17 |
| 5. 25, 28, 31, 34 | 6. 50, 60, 70, 80 |
| 7. 19, 22, 25, 28 | 8. 66, 77, 88, 99 |

Practice Time 1.4

- | | | | | |
|---|-------------|-------------|-------------|-------------|
| A | 1. $50 + 6$ | 2. $70 + 9$ | 3. $20 + 4$ | 4. $60 + 6$ |
| | 5. $30 + 2$ | | | |

- B** 1. 28 2. 36 3. 84 4. 96
 5. 29 6. 74

C	Tens	Ones
1.	5	9
2.	1	8
3.	7	8
4.	2	1
5.	6	1
6.	3	4
7.	2	5
8.	8	3
9.	7	2
10.	7	6

Practice Time 1.5

- A** 1. 20 2. 78 3. 18 4. 30
 5. 9 6. 58

- B** 1. 28 2. 51 3. 29 4. 95
 5. 73 6. 86

- C** 1. $\overset{\checkmark}{18}$, 27, $\textcircled{44}$ 2. $\overset{\checkmark}{8}$, 15, $\textcircled{24}$ 3. $\overset{\checkmark}{91}$, 94, $\textcircled{98}$ 4. 55, $\overset{\checkmark}{5}$, $\textcircled{95}$
 5. 59, $\textcircled{86}$, $\overset{\checkmark}{18}$ 6. 36, 32, $\textcircled{39}$

- D** 1. $24 < 38$ 2. $95 > 59$ 3. $60 < 68$ 4. $18 < 82$
 5. $29 < 41$ 6. $47 < 55$ 7. $14 > 9$ 8. $57 < 75$
 9. $63 > 36$ 10. $28 > 23$ 11. $92 > 29$ 12. $14 < 17$
 13. $20 < 34$ 14. $50 < 60$ 15. $38 > 24$

- E** 1. 16, 62, 68, 89 2. 7, 48, 89, 99
 3. 9, 14, 65, 75 4. 5, 35, 54, 87
 5. 6, 22, 79, 83 6. 9, 27, 41, 78

- F** 1. 92, 69, 33, 5 2. 56, 35, 28, 17
 3. 94, 65, 59, 11 4. 99, 48, 12, 7
 5. 70, 66, 45, 18 6. 93, 89, 72, 64

Practice Time 1.6

	Biggest	Smallest
1.	71	17
2.	64	46
3.	73	37
4.	92	29
5.	32	23

Practice Time 1.7

A Even = 20, 18, 16, 88, 78, 10, 30, 26, 32, 22, 80, 58, 14, 60, 72, 54, 66, 38, 96, 90,

Odd = 43, 49, 91, 47, 13, 27, 41, 51, 35, 35, 63, 45, 11, 19, 53, 81

B 1. 13, 15, 17 2. 25, 27, 29

3. 53, 55, 57 4. 87, 89, 91

5. 39, 41, 43, 45 6. 47, 49, 51

C 1. 26, 28, 30 2. 32, 34, 36

3. 64, 66, 68 4. 88, 90, 92

5. 44, 46, 48, 50, 52 6. 76, 78, 80, 82

Practice Time 1.8

A 1. Pencil 2. Ice cream 3. Pencil

B 1. Fifth 2. Sixth 3. Eight 4. Second

5. E

C Wednesday = Third, Friday = Fifth, Saturday = Sixth

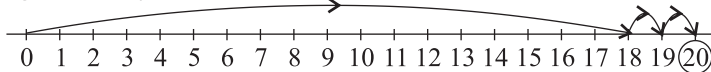
CHAPTER - 2

Practice Time 2.1

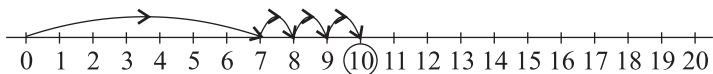
1. $10 + 4 = 14$



2. $18 + 2 = 20$



3. $7 + 3 = 10$



4. $4 + 9 = 13$



Practice Time 2.2

1.	$\begin{array}{r} 22 \\ + 9 \\ \hline 31 \end{array}$	2.	$\begin{array}{r} 24 \\ + 6 \\ \hline 30 \end{array}$	3.	$\begin{array}{r} 26 \\ + 5 \\ \hline 31 \end{array}$	4.	$\begin{array}{r} 25 \\ + 8 \\ \hline 33 \end{array}$
----	---	----	---	----	---	----	---

5.	$\begin{array}{r} 46 \\ + 5 \\ \hline 51 \end{array}$	6.	$\begin{array}{r} 51 \\ + 9 \\ \hline 60 \end{array}$	7.	$\begin{array}{r} 78 \\ + 4 \\ \hline 82 \end{array}$	8.	$\begin{array}{r} 28 \\ + 5 \\ \hline 33 \end{array}$
----	---	----	---	----	---	----	---

Practice Time 2.3

1.	$\begin{array}{r} 81 \\ + 16 \\ \hline 97 \end{array}$	2.	$\begin{array}{r} 82 \\ + 11 \\ \hline 93 \end{array}$	3.	$\begin{array}{r} 64 \\ + 24 \\ \hline 88 \end{array}$	4.	$\begin{array}{r} 15 \\ + 64 \\ \hline 79 \end{array}$
----	--	----	--	----	--	----	--

5.	$\begin{array}{r} 28 \\ + 31 \\ \hline 59 \end{array}$	6.	$\begin{array}{r} 86 \\ + 12 \\ \hline 98 \end{array}$	7.	$\begin{array}{r} 56 \\ + 23 \\ \hline 79 \end{array}$	8.	$\begin{array}{r} 37 \\ + 02 \\ \hline 39 \end{array}$
----	--	----	--	----	--	----	--

9.	$\begin{array}{r} 54 \\ + 23 \\ \hline 77 \end{array}$	10.	$\begin{array}{r} 36 \\ + 42 \\ \hline 78 \end{array}$	11.	$\begin{array}{r} 33 \\ + 26 \\ \hline 59 \end{array}$	12.	$\begin{array}{r} 14 \\ + 64 \\ \hline 78 \end{array}$
----	--	-----	--	-----	--	-----	--

Practice Time 2.4

1.	$\begin{array}{r} 25 \\ + 38 \\ \hline 63 \end{array}$	2.	$\begin{array}{r} 43 \\ + 37 \\ \hline 80 \end{array}$	3.	$\begin{array}{r} 39 \\ + 14 \\ \hline 53 \end{array}$	4.	$\begin{array}{r} 56 \\ + 28 \\ \hline 84 \end{array}$
----	--	----	--	----	--	----	--

$$\begin{array}{r} 5. \quad 62 \\ + 19 \\ \hline 81 \end{array}$$

$$\begin{array}{r} 6. \quad 38 \\ + 15 \\ \hline 53 \end{array}$$

$$\begin{array}{r} 7. \quad 45 \\ + 26 \\ \hline 71 \end{array}$$

$$\begin{array}{r} 8. \quad 16 \\ + 25 \\ \hline 41 \end{array}$$

Practice Time 2.5

$$\begin{array}{r} 1. \quad 45 \\ 28 \\ + 16 \\ \hline 89 \end{array}$$

$$\begin{array}{r} 2. \quad 49 \\ 18 \\ + 27 \\ \hline 94 \end{array}$$

$$\begin{array}{r} 3. \quad 25 \\ 16 \\ + 34 \\ \hline 75 \end{array}$$

$$\begin{array}{r} 4. \quad 15 \\ 50 \\ + 16 \\ \hline 81 \end{array}$$

$$\begin{array}{r} 5. \quad 27 \\ 30 \\ + 29 \\ \hline 86 \end{array}$$

$$\begin{array}{r} 6. \quad 17 \\ 29 \\ + 46 \\ \hline 92 \end{array}$$

$$\begin{array}{r} 7. \quad 21 \\ 25 \\ + 26 \\ \hline 72 \end{array}$$

$$\begin{array}{r} 8. \quad 23 \\ 21 \\ + 36 \\ \hline 80 \end{array}$$

Practice Time 2.6

1. Number of male teachers in a school = 56 T O
 Number of female teachers in a school = 42 5 6
 Total number of teacher in a school = $56 + 42$ + 4 2
 Therefore, 98 teachers were in a school. 9 8

2. Time taken by Shikha to complete Maths homework = 25 minutes
 Time taken by Shikha to complete science homework = 30 minutes T O
 Total time taken to complete all her homework 2 5
 $= 25 + 30$ + 3 0
 $= 55$ minutes 5 5
 Therefore, Shikha took 55 minutes to complete all her homework.

3. Number of bananas bought from market = 25 T O
 Number of mangoes bought from market = 46 2 5
 Total number of fruits bought from market + 4 6
 $= 25 + 46$ 7 1
 Therefore, 71 fruits were bought from market.

4. Number of toffee bought by Mohit = 45
 Number of toffees bought by his sister = 13
 Total number of toffees bought altogether
 = 45 + 13

$$\begin{array}{r} \text{T O} \\ 45 \\ + 13 \\ \hline 58 \end{array}$$

Therefore, 58 toffees were bought altogether.

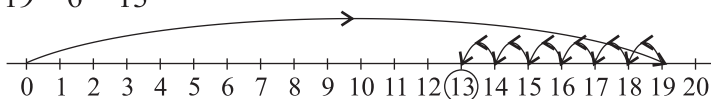
CHAPTER - 3

Practice Time 3.1

1. $14 - 8 = 6$



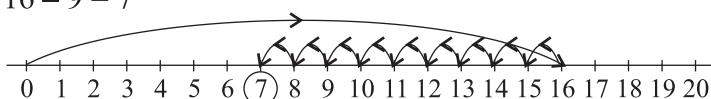
2. $19 - 6 = 13$



3. $12 - 5 = 7$



4. $16 - 9 = 7$



Practice Time 3.2

1.
$$\begin{array}{r} 92 \\ - 3 \\ \hline 89 \end{array}$$

2.
$$\begin{array}{r} 22 \\ - 3 \\ \hline 19 \end{array}$$

3.
$$\begin{array}{r} 61 \\ - 5 \\ \hline 56 \end{array}$$

4.
$$\begin{array}{r} 30 \\ - 8 \\ \hline 22 \end{array}$$

5.
$$\begin{array}{r} 86 \\ - 7 \\ \hline 79 \end{array}$$

6.
$$\begin{array}{r} 80 \\ - 5 \\ \hline 75 \end{array}$$

7.
$$\begin{array}{r} 44 \\ - 5 \\ \hline 39 \end{array}$$

8.
$$\begin{array}{r} 80 \\ - 1 \\ \hline 79 \end{array}$$

9.
$$\begin{array}{r} 16 \\ - 8 \\ \hline 8 \end{array}$$

10.
$$\begin{array}{r} 20 \\ - 6 \\ \hline 14 \end{array}$$

11.
$$\begin{array}{r} 95 \\ - 3 \\ \hline 92 \end{array}$$

12.
$$\begin{array}{r} 40 \\ - 9 \\ \hline 31 \end{array}$$

Practice Time 3.3

$$\begin{array}{r} 1. \quad 8 \ 5 \\ -3 \ 2 \\ \hline 5 \ 3 \end{array}$$

$$\begin{array}{r} 2. \quad 4 \ 5 \\ -3 \ 2 \\ \hline 1 \ 3 \end{array}$$

$$\begin{array}{r} 3. \quad 6 \ 8 \\ -3 \ 5 \\ \hline 3 \ 3 \end{array}$$

$$\begin{array}{r} 4. \quad 4 \ 8 \\ -3 \ 2 \\ \hline 1 \ 6 \end{array}$$

$$\begin{array}{r} 5. \quad 6 \ 7 \\ -1 \ 3 \\ \hline 5 \ 4 \end{array}$$

$$\begin{array}{r} 6. \quad 4 \ 3 \\ -1 \ 2 \\ \hline 3 \ 1 \end{array}$$

$$\begin{array}{r} 7. \quad 8 \ 7 \\ -4 \ 7 \\ \hline 4 \ 0 \end{array}$$

$$\begin{array}{r} 8. \quad 7 \ 7 \\ -2 \ 3 \\ \hline 5 \ 4 \end{array}$$

$$\begin{array}{r} 9. \quad 9 \ 6 \\ -2 \ 0 \\ \hline 7 \ 6 \end{array}$$

$$\begin{array}{r} 10. \quad 6 \ 9 \\ -2 \ 0 \\ \hline 4 \ 9 \end{array}$$

$$\begin{array}{r} 11. \quad 8 \ 9 \\ -4 \ 5 \\ \hline 4 \ 4 \end{array}$$

$$\begin{array}{r} 12. \quad 8 \ 3 \\ -2 \ 1 \\ \hline 6 \ 2 \end{array}$$

Practice Time 3.4

$$\begin{array}{r} 1. \quad 2 \ 4 \\ -0 \ 9 \\ \hline 1 \ 5 \end{array}$$

$$\begin{array}{r} 2. \quad 2 \ 1 \\ -1 \ 3 \\ \hline 0 \ 8 \end{array}$$

$$\begin{array}{r} 3. \quad 6 \ 2 \\ -1 \ 3 \\ \hline 4 \ 9 \end{array}$$

$$\begin{array}{r} 4. \quad 3 \ 2 \\ -1 \ 4 \\ \hline 1 \ 8 \end{array}$$

$$\begin{array}{r} 5. \quad 7 \ 0 \\ -2 \ 4 \\ \hline 4 \ 6 \end{array}$$

$$\begin{array}{r} 6. \quad 5 \ 1 \\ -2 \ 6 \\ \hline 2 \ 5 \end{array}$$

$$\begin{array}{r} 7. \quad 8 \ 0 \\ -2 \ 6 \\ \hline 5 \ 4 \end{array}$$

$$\begin{array}{r} 8. \quad 4 \ 2 \\ -1 \ 5 \\ \hline 2 \ 7 \end{array}$$

Practice Time 3.5

$$\begin{array}{r} 1. \quad 4 \ 3 \\ +2 \ 4 \\ \hline 6 \ 7 \end{array}$$

$$\begin{array}{r} 6 \ 7 \\ -4 \ 2 \\ \hline 2 \ 5 \end{array}$$

$$\begin{array}{r} 2. \quad 6 \ 4 \\ +2 \ 3 \\ \hline 8 \ 7 \end{array}$$

$$\begin{array}{r} 8 \ 7 \\ -2 \ 8 \\ \hline 5 \ 9 \end{array}$$

$$\begin{array}{r} 3. \quad 8 \ 3 \\ +1 \ 2 \\ \hline 9 \ 5 \end{array}$$

$$\begin{array}{r} 9 \ 5 \\ -5 \ 6 \\ \hline 3 \ 9 \end{array}$$

$$\begin{array}{r} 4. \quad 3 \ 2 \\ +2 \ 1 \\ \hline 5 \ 3 \end{array}$$

$$\begin{array}{r} 5 \ 3 \\ -1 \ 1 \\ \hline 4 \ 2 \end{array}$$

Practice Time 3.6

$$\begin{array}{r} 1. \quad 9 \ 6 \\ -5 \ 2 \\ \hline 4 \ 4 \end{array}$$

Check

$$\begin{array}{r} 4 \ 4 \\ +5 \ 2 \\ \hline 9 \ 6 \end{array}$$

$$\begin{array}{r} 2. \quad 8 \ 9 \\ -3 \ 5 \\ \hline 5 \ 4 \end{array}$$

Check

$$\begin{array}{r} 5 \ 4 \\ +3 \ 5 \\ \hline 8 \ 9 \end{array}$$

3. $\begin{array}{r} 62 \\ -41 \\ \hline 21 \end{array}$	Check $\begin{array}{r} 41 \\ +21 \\ \hline 62 \end{array}$
5. $\begin{array}{r} 82 \\ -67 \\ \hline 15 \end{array}$	Check $\begin{array}{r} 15 \\ +67 \\ \hline 82 \end{array}$

4. $\begin{array}{r} 94 \\ -67 \\ \hline 27 \end{array}$	Check $\begin{array}{r} 27 \\ +67 \\ \hline 94 \end{array}$
6. $\begin{array}{r} 50 \\ -24 \\ \hline 26 \end{array}$	Check $\begin{array}{r} 26 \\ +24 \\ \hline 50 \end{array}$

Practice Time 3.7

- | | |
|---|--|
| <p>1. Number of flowers in a basket = 28
 Number of flowers used for a garland = 16
 Number of flowers left = 28 – 16
 Therefore, 12 flowers were left</p> | $\begin{array}{r} T O \\ 28 \\ -16 \\ \hline 12 \end{array}$ |
| <p>2. Number of comics with Rishabh = 36
 Number of comics given to Nikhil = 22
 Number of comics left with Rishabh = 36 – 22
 Therefore, 14 comics were left with Rishabh</p> | $\begin{array}{r} T O \\ 36 \\ -22 \\ \hline 14 \end{array}$ |
| <p>3. Number of rabbits with Reena = 59
 Number of rabbits hopped away = 18
 Number of rabbits left with Reena = 59 – 18
 Therefore, 41 rabbits were left with Reena</p> | $\begin{array}{r} T O \\ 59 \\ -18 \\ \hline 41 \end{array}$ |
| <p>4. Total number of birds on a tree = 28
 Number of blue birds = 16
 Number of red birds = 28 – 16
 Therefore, 12 birds were red in colour.</p> | $\begin{array}{r} T O \\ 28 \\ -16 \\ \hline 12 \end{array}$ |
| <p>5. Number of candies with Jaya = 45
 Number of candies given to her sister = 28
 Number of candies left = 45 – 28
 Therefore, 17 candies were left.</p> | $\begin{array}{r} T O \\ 45 \\ -28 \\ \hline 17 \end{array}$ |

6. Number of eggs in an egg tray = 30 T O
 Number of eggs cooked by mother = 16 3 0
 Number of eggs left in the tray = $30 - 16$ $\begin{array}{r} -16 \\ \hline 14 \end{array}$
 Therefore, 14 eggs were left in the tray
7. Number of books in the shop = 56 T O
 Number of books sold = 18 5 6
 Number of books left in the shop = $56 - 18$ $\begin{array}{r} -18 \\ \hline 38 \end{array}$
 Therefore, 38 books were left in the shop.
8. Number of toffees with Dipika = 28 T O
 Number of toffees distributed among
 her friends = 12 $\begin{array}{r} 28 \\ -12 \\ \hline 16 \end{array}$
 Number of toffees left with her = $28 - 12$ $\begin{array}{r} 16 \end{array}$
 Therefore, 16 toffees were left with Dipika.
9. Number of baseball cards with Marry = 36
 Number of baseball cards torn = 5
 Number of baseball cards left with Marry = $36 - 5 = 31$
 Number of baseball cards given to Marry by Kavita = 10
 Number of baseball cards with Marry = $31 + 10 = 41$
 Therefore, 41 baseball cards were with Marry.
10. Number of balloons = 56 5 6
 Number of balloons burst up = 38 $\begin{array}{r} -38 \\ \hline 18 \end{array}$
 Number of balloons were left = $56 - 38$ $\begin{array}{r} 18 \end{array}$
 Therefore, 18 balloons were left.
11. Total money with Ritesh = ₹ 80 T O
 Money given to his younger sister = ₹ 35 8 0
 Money left in his piggy bank = $80 - 35$ $\begin{array}{r} -35 \\ \hline 45 \end{array}$
 Therefore, ₹ 45 was left in his piggy bank.

CHAPTER - 4

Practice Time 4.1

- A** 1. c 2. d 3. a 4. b
B 1. b 2. c 3. d 4. a
C 2. $4 \times 6 = 24$ 3. $5 \times 4 = 20$
4. $7 \times 7 = 49$

Practice Time 4.2

- A** 1. 20 2. 16 3. 40 4. 45
5. 35 6. 60 7. 100 8. 25
9. 12 10. 10
B 1. c 2. a 3. f 4. e
5. b 6. d

Practice Time 4.3

1. 0 2. 4×5 3. 8 4. 7×10
5. 1×9 6. 1×8 7. 2×7 8. 4×0
9. 1×6 10. 9×5

Practice Time 4.4

1. 48 2. 12 3. 8 4. 30
5. 14 6. 15 7. 35 8. 30

Practice Time 4.5

1. Number of cows under a shed = 8
Number of legs with each cow = 4
Total number of legs = $8 \times 4 = 32$
Therefore, 8 cows have 32 legs
2. Number of pages read everyday = 10
Number of pages read in 7 days = $7 \times 10 = 70$
Therefore, 70 pages were read in 7 days.
3. Distance covered in one morning = 6 km
Distance covered in 8 mornings = $6 \times 8 = 48$ km
Therefore, 48 km was covered in 8 mornings.

4. Earnings per hour = ₹ 10

Earnings in 8 hours = ₹ 10×8 = ₹ 80

Therefore, ₹ 80 was the total earnings in 8 hours.

CHAPTER - 5

Practice time 5.1

1. Number of ships = 8

Number of groups = 4

Ships in each group = 2

$$8 \div 4 = 2$$

2. Number of rabbits = 9

Number of groups = 3

Rabbits in each group = 3

$$9 \div 3 = 3$$

3. Number of balls = 12

Number of groups = 3

Balls in each group = 4

$$12 \div 3 = 4$$

4. Number of books = 15

Number of groups = 3

Books in each group = 5

$$15 \div 3 = 5$$

Practice Time 5.2

A 1. $21 \div 7 = 3$

2. $20 \div 5 = 4$

3. $24 \div 6 = 4$

4. $10 \div 2 = 5$

B 2. $27 \div 3 = 9$

$$27 - 3 = 24, 24 - 3 = 21, 21 - 3 = 18, 18 - 3 = 15,$$

$$15 - 3 = 12, 12 - 3 = 9, 9 - 3 = 6, 6 - 3 = 3,$$

$$3 - 3 = 0$$

3. $32 \div 4 = 8$

$$32 - 4 = 28, 28 - 4 = 24, 24 - 4 = 20, 20 - 4 = 16,$$

$$16 - 4 = 12, 12 - 4 = 8, 8 - 4 = 4, 4 - 4 = 0$$

4. $25 \div 5 = 5$

$$25 - 5 = 20, 20 - 5 = 15, 15 - 5 = 10, 10 - 5 = 5, \\ 5 - 5 = 0$$

5. $48 \div 6 = 8$

$$48 - 6 = 42, 42 - 6 = 36, 36 - 6 = 30, 30 - 6 = 24, \\ 24 - 6 = 18, 18 - 6 = 12, 12 - 6 = 6, 6 - 6 = 0$$

Practice Time 5.3

A 1. Quotient = 3

Dividend = 6

Divisor = 2

2. Quotient = 4

Dividend = 24

Divisor = 6

3. Quotient = 4

Dividend = 40

Divisor = 10

B 1. $24 \div 3 = 8$ and $24 \div 8 = 3$

2. $21 \div 7 = 3$ and $21 \div 3 = 7$

3. $18 \div 3 = 6$ and $18 \div 6 = 3$

4. $30 \div 6 = 5$ and $30 \div 5 = 6$

5. $36 \div 4 = 9$ and $36 \div 9 = 4$

CHAPTER - 6

Practice Time 6.1

A Do it yourself.

B 1. 352 = Three hundred fifty two

2. 524 = Five hundred twenty four

3. 646 = Six hundred forty six.

4. 872 = Eight hundred seventy two.

C 1. 417

2. 552

3. 936

4. 615

D 1. 322

2. 529

3. 647

4. 893

E 1. 833

2. 780

3. 665

4. 503

Practice Time 6.2

- A** 1. $8 \text{ } \textcircled{3} \text{ } 2 = 30$
 $\textcircled{9} \text{ } 2 \text{ } 1 = 900$
 $6 \text{ } 4 \text{ } \textcircled{8} = 8$
 2. $\underline{3} \text{ } 2 \text{ } 1 = 3$
 $7 \text{ } 2 \text{ } \underline{4} = 4$
 $\underline{5} \text{ } 1 \text{ } 4 = 5$

- B** 1. 305 2. 941 3. 281 4. 629
 5. 543 6. 430 7. 860 8. 705

- C** 2. 7 hundreds + 7 tens + 5 ones $700 + 70 + 5$
 3. 8 hundreds + 5 ones $800 + 5$
 4. 2 hundreds + 2 ones $200 + 2$
 5. 5 hundreds + 4 tens + 8 ones $500 + 40 + 8$
 6. 3 hundreds + 6 tens + 7 ones $300 + 60 + 7$

- D** 2. $700 + 20 + 5$ 3. $900 + 20 + 2$
 4. $300 + 60 + 9$ 5. $300 + 80 + 7$
 6. $200 + 50 + 8$ 7. $100 + 20 + 9$
 8. $800 + 40 + 0$

- E** 1. H T O 2. H T O
 1 3 0 1 4 8
 3. H T O 4. H T O
 1 6 7 1 2 4
 5. H T O 6. H T O
 1 4 9 1 7 1

Practice Time 6.3

- A** 1. 452 2. 200 3. 354 4. 888
 5. 987 6. 127 7. 198 8. 588
 9. 158
- B** 1. 64 2. 104 3. 364 4. 152
 5. 148 6. 132 7. 191 8. 173
 9. 200

- C** 1. 323, 561, 728, 782, 824, 967
 2. 233, 415, 621, 746, 800, 948
D 1. 999, 840, 754, 683, 446, 208
 2. 956, 926, 864, 801, 449, 321

CHAPTER - 7

Practice Time 7.1

A 1.
$$\begin{array}{r} \text{H T O} \\ 94 \\ + 10 \\ \hline 104 \end{array}$$

2.
$$\begin{array}{r} \text{H T O} \\ 40 \\ + 80 \\ \hline 120 \end{array}$$

3.
$$\begin{array}{r} \text{H T O} \\ 90 \\ + 30 \\ \hline 120 \end{array}$$

4.
$$\begin{array}{r} \text{H T O} \\ 80 \\ + 50 \\ \hline 130 \end{array}$$

5.
$$\begin{array}{r} \text{H T O} \\ 28 \\ + 90 \\ \hline 118 \end{array}$$

6.
$$\begin{array}{r} \text{H T O} \\ 57 \\ + 80 \\ \hline 137 \end{array}$$

7.
$$\begin{array}{r} \text{H T O} \\ 70 \\ + 63 \\ \hline 133 \end{array}$$

8.
$$\begin{array}{r} \text{H T O} \\ 50 \\ + 95 \\ \hline 145 \end{array}$$

9.
$$\begin{array}{r} \text{H T O} \\ 25 \\ + 82 \\ \hline 107 \end{array}$$

10.
$$\begin{array}{r} \text{H T O} \\ 43 \\ + 84 \\ \hline 127 \end{array}$$

11.
$$\begin{array}{r} \text{H T O} \\ 70 \\ + 50 \\ \hline 120 \end{array}$$

12.
$$\begin{array}{r} \text{H T O} \\ 82 \\ + 35 \\ \hline 117 \end{array}$$

- B** Number of books issued on friday = 90
 Number of books issued on saturday = 50
 Total number of books issued

On these two days = 90 + 60

$$\begin{array}{r} \text{H T O} \\ 90 \\ + 60 \\ \hline 150 \end{array}$$

Therefore, 150 books were issued on these two days.

C Number of pebbles with Satyam = 68

Number of pebbles given by Shivam = 74

Total number of pebbles with Satyam = $68 + 74$

$$\begin{array}{r} \text{H T O} \\ 68 \\ + 74 \\ \hline 142 \end{array}$$

Therefore, 142 pebbles were with Satyam

Practice Time 7.2

A 1.	$\begin{array}{r} \text{H T O} \\ 581 \\ + 205 \\ \hline 786 \end{array}$	2.	$\begin{array}{r} \text{H T O} \\ 562 \\ + 426 \\ \hline 988 \end{array}$	3.	$\begin{array}{r} \text{H T O} \\ 523 \\ + 202 \\ \hline 725 \end{array}$	4.	$\begin{array}{r} \text{H T O} \\ 334 \\ + 262 \\ \hline 596 \end{array}$
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B Weight of one gunny bag = 423 kg

Weight of second gunny bag = 345 kg

Total weight of both the gunny bags = $423 + 345$

$$\begin{array}{r} \text{H T O} \\ 423 \\ + 345 \\ \hline 768 \end{array}$$

Therefore, 768 kg was the weight of both the gunny bags.

C Number of Pink roses = 243

Number of red roses = 406

Total number of roses = $243 + 406$

$$\begin{array}{r} \text{H T O} \\ 243 \\ + 406 \\ \hline 649 \end{array}$$

Therefore, 649 roses were there altogether.

Practice Time 7.3

$$\begin{array}{r} \text{A } 1. \quad \text{H T O} \\ 649 \\ - 325 \\ \hline 324 \end{array}$$

$$2. \quad \begin{array}{r} \text{H T O} \\ 620 \\ - 300 \\ \hline 320 \end{array}$$

$$3. \quad \begin{array}{r} \text{H T O} \\ 536 \\ - 214 \\ \hline 322 \end{array}$$

$$4. \quad \begin{array}{r} \text{H T O} \\ 975 \\ - 352 \\ \hline 623 \end{array}$$

$$5. \quad \begin{array}{r} \text{H T O} \\ 784 \\ - 302 \\ \hline 482 \end{array}$$

$$6. \quad \begin{array}{r} \text{H T O} \\ 999 \\ - 456 \\ \hline 543 \end{array}$$

$$7. \quad \begin{array}{r} \text{H T O} \\ 544 \\ - 123 \\ \hline 421 \end{array}$$

$$8. \quad \begin{array}{r} \text{H T O} \\ 689 \\ - 406 \\ \hline 283 \end{array}$$

$$9. \quad \begin{array}{r} \text{H T O} \\ 895 \\ - 764 \\ \hline 131 \end{array}$$

$$10. \quad \begin{array}{r} \text{H T O} \\ 756 \\ - 325 \\ \hline 431 \end{array}$$

$$11. \quad \begin{array}{r} \text{H T O} \\ 397 \\ - 186 \\ \hline 211 \end{array}$$

$$12. \quad \begin{array}{r} \text{H T O} \\ 450 \\ - 200 \\ \hline 250 \end{array}$$

B Total Number of books in a library = 842

Number of books issued to students = 231

Number of books left = $842 - 231$

$$\begin{array}{r} \text{H T O} \\ 842 \\ - 231 \\ \hline 611 \end{array}$$

Therefore, 611 books were left.

C Total number of books in the shop = 587

Number of books sold to customers = 274

Number of books left in the shop = $587 - 274$

$$\begin{array}{r} \text{H T O} \\ 587 \\ - 274 \\ \hline 313 \end{array}$$

Therefore, 313 books were left.

D Number of cold drinks sold on Monday = 495

Number of cold drinks sold on Tuesday = 153

Number of cold drinks sold less on Tuesday

$$= 495 - 153$$

$$\begin{array}{r} \text{H T O} \\ 495 \\ - 153 \\ \hline 342 \end{array}$$

Therefore, 342 cold drinks were less sold on Tuesday.

E Number of runs scored by India = 365

Number of runs scored by Australia less than India

$$= 132$$

Number of runs scored by Australia = 365 - 132

$$\begin{array}{r} \text{H T O} \\ 365 \\ - 132 \\ \hline 233 \end{array}$$

Therefore, 233 runs were scored by Australia.

Practice Time 7.4

A 1.

$$\begin{array}{r} \text{H T O} \\ 507 \\ + 15 \\ \hline 522 \end{array}$$

2.

$$\begin{array}{r} \text{H T O} \\ 800 \\ + 38 \\ \hline 838 \end{array}$$

3.

$$\begin{array}{r} \text{H T O} \\ 462 \\ + 24 \\ \hline 486 \end{array}$$

4.

$$\begin{array}{r} \text{H T O} \\ 350 \\ + 49 \\ \hline 399 \end{array}$$

5.

$$\begin{array}{r} \text{H T O} \\ 654 \\ - 41 \\ \hline 613 \end{array}$$

6.

$$\begin{array}{r} \text{H T O} \\ 475 \\ - 32 \\ \hline 443 \end{array}$$

7.

$$\begin{array}{r} \text{H T O} \\ 899 \\ - 6 \\ \hline 893 \end{array}$$

8.

$$\begin{array}{r} \text{H T O} \\ 567 \\ - 43 \\ \hline 524 \end{array}$$

B Number of days attended by Ravi = 273

Number of days more attended by Shikha = 25

Number of days attended by Shikha = $273 + 25$

$$\begin{array}{r} \text{H T O} \\ 273 \\ + 25 \\ \hline 298 \end{array}$$

Therefore, 298 days were attended by Shikha.

C Number of boys in painting competition = 342

Number of girls less than boys = 128

Number of girls in painting competition = $342 - 128$

$$\begin{array}{r} \text{H T O} \\ 342 \\ - 128 \\ \hline 214 \end{array}$$

Therefore, 214 girls were there in the competition

D Number of days to build a house = 356

Number of days to paint = 42

Total number of days to finish the house = $356 + 42$

$$\begin{array}{r} \text{H T O} \\ 356 \\ + 42 \\ \hline 398 \end{array}$$

Therefore, it took 398 days to finish the house.

Practice Time 7.5

A Number of mathematics questions = 98

Number of science questions = 72

Total questions solved in all = $98 + 72$

$$\begin{array}{r} \text{H T O} \\ 98 \\ + 72 \\ \hline 170 \end{array}$$

Therefore, 170 questions were solved in all.

- B** Number of teddy bears produced on Monday = 554
 Number of teddy bears produced on Tuesday = 345
 Total teddy bears produced in these two days

$$= 554 + 345$$

	H	T	O
	5	5	4
+	3	4	5
	8	9	9

Therefore, 899 teddy bears were produced altogether in these two days.

- C** Number of people visited museum on Saturday = 296
 Number of people visited museum on Sunday = 345
 Total number of people visited the museum in these 2 days = 296 + 345

	H	T	O
	2	9	6
+	3	4	5
	6	4	1

Therefore, 641 people visited the museum in these 2 days.

- D** Number of coins with Tanishq = 62
 Number of coins given by his brother = 48
 Total number of coins = 62 + 48

	H	T	O
		6	2
+		4	8
	1	1	0

Therefore, 110 coins were with Tanishq.

- E** Number of passengers in first bus = 76
 Number of passengers in second bus = 74
 Total number of passengers in 2 buses = 76 + 74

	H	T	O
	7	6	
+	7	4	
	1	5	0

Therefore, 150 passengers were in 2 buses.

F Total number of kites in the shop = 475

Number of kites sold on Sunday = 300

Number of kites left in the shop = $475 - 300$

$$\begin{array}{r} \text{H T O} \\ 475 \\ - 300 \\ \hline 175 \end{array}$$

Therefore, 175 kites were left in the shop.

G Number of wheat sacks with farmer = 365

Number of wheat sacks used = 50

Number of wheat sacks left with him = $365 - 50$

$$\begin{array}{r} \text{H T O} \\ 365 \\ - 50 \\ \hline 315 \end{array}$$

Therefore, 315 wheat sacks were left with him.

H Number of coins with Varun = 176

Number of coins with Veena = 158

Total number of coins = $176 + 158$

Therefore, 334 coins were in altogether.

$$\begin{array}{r} \text{H T O} \\ 176 \\ + 158 \\ \hline 334 \end{array}$$

CHAPTER - 8

Practice Time 8.1

(A, B, C) it yourself.

Practice Time 8.2

A Do it yourself.

- B** 1. 1 2. l/ml 3. ml 4. l/ml
5. ml 6. ml

Practice Time 8.3

- A** 2. 20 3. 10
B 1. kg 2. gm 3. gm 4. kg

5. kg

6. gm

CHAPTER - 9

Practice Time 9.1

A 1. c 2. a 3. d 4. b

B Do it yourself

C Horizontal lines 2

Vertical lines 1

Slanting lines 3

Practice Time 9.2

A Do it yourself

B 1. b 2. d 3. a 4. e

5. c

C 1. sphere 2. cuboid 3. cone 4. cylinder

CHAPTER - 10

Practice Time 10.1

Do it yourself.

Practice Time 10.2

1. 9, 11, 13

2. 96, 95, 94

3. 28, 30, 32

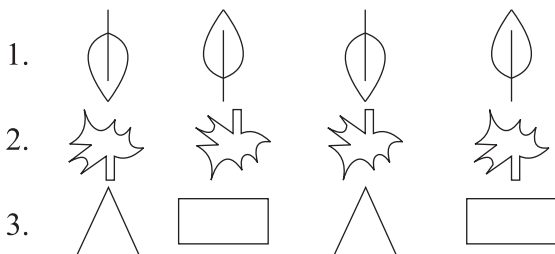
4. 51, 53, 55

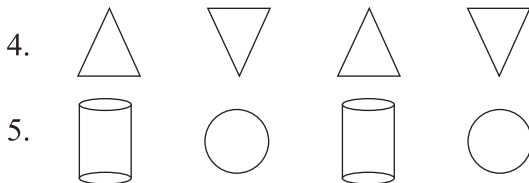
5. 36, 38, 40

6. 59, 69, 79

7. 55, 66, 77

Practice Time 10.3

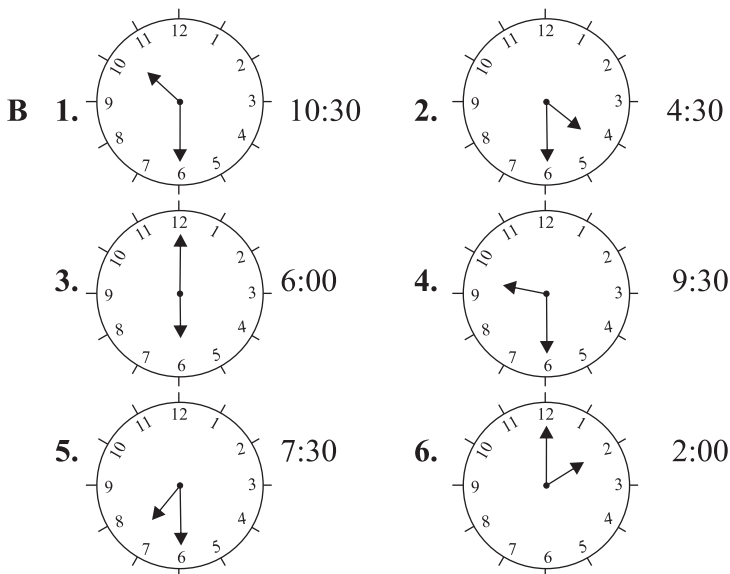




CHAPTER - 11

Practice Time 11.1

- A 2. 3 : 00 3. 11 : 00 4. 1 : 00 5. 12 : 15
6. 5 : 00



Practice Time 11.2

1. AM 2. PM 3. PM 4. AM
5. AM 6. PM 7. PM

Practice Time 11.3

1. Monday 2. Thursday 3. Saturday 4. Sunday
5. Thursday 6. Thursday

Practice Time 11.4

1. 42 days 2. 23 years 3. $31 + 30 + 31 = 92$ days
4. 52 weeks

CHAPTER - 12

Practice Time 12.1

- A** 1. 50 p 2. 4 3. 5 4. 5
 5. 5 rupee
- B** 1. 25 2. 61 3. 150 4. 106

Practice Time 12.2

- A** 2. Twenty five rupees and fifty paise
 3. Thirty two rupees and ten paise
 4. Fifty rupees and seventy five paise.
 5. Ten rupees and ninety paise
 6. Fifteen rupees and Thirty five paise.
- B** 2. ₹ 5.45 3. ₹ 10.60 4. ₹ 9.45 5. ₹ 8.70
 6. ₹ 25.50

Practice Time 12.3

- | | | |
|--|--|--|
| 1. ₹ P
17 50
+12 25
<hr style="width: 100%;"/> 29 75 | 2. ₹ P
35 00
+23 50
<hr style="width: 100%;"/> 58 50 | 3. ₹ P
23 24
+12 25
<hr style="width: 100%;"/> 35 49 |
| 4. ₹ P
40 50
+16 25
<hr style="width: 100%;"/> 56 75 | 5. ₹ P
40 50
+12 25
<hr style="width: 100%;"/> 52 75 | 6. ₹ P
35 75
+12 00
<hr style="width: 100%;"/> 47 75 |
| 7. ₹ P
42 50
+10 25
<hr style="width: 100%;"/> 52 75 | 8. ₹ P
64 23
+10 25
<hr style="width: 100%;"/> 74 48 | |

Practice Time 12.4

- | | | |
|--|--|--|
| 1. ₹ P
98 75
-45 00
<hr style="width: 100%;"/> 53 75 | 2. ₹ P
65 55
-23 25
<hr style="width: 100%;"/> 42 30 | 3. ₹ P
68 75
-21 50
<hr style="width: 100%;"/> 47 25 |
|--|--|--|

4. ₹ P 45 85 -12 45 33 40	5. ₹ P 76 00 -56 00 20 00	6. ₹ P 96 25 -42 00 54 25
7. ₹ P 76 59 -46 25 30 34	8. ₹ P 84 58 -53 25 31 33	

CHAPTER - 13

Practice Time 13.1

A Sharpner	1	Eraser	2
Crayons	7	Lunch Box	1
Books	5		

B 	6		4
	5		4
	9		

C 3 letter names

Kim

5 letter names

Komal, Ellen, Sumit

Mohit, Jenny, Neeta

4 letter names

Cara, Ojas

6-letter names

Rakesh, Rashmi, Babita,

Nitika

Practice Time 13.2

A 1. 25	2. 15	3. 5
---------	-------	------

B Do it yourself.

CHAPTER - 1

Practice Time 1

- A** 1. 13 2. 15 3. 30 4. 17
 5. 50 6. 4
- B** 1. LX 2. XVII 3. VI 4. III
 5. XIII 6. XL
- C** Odd number = 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25
 Even number = 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24
- D** 1. Even 2. Odd 3. Odd 4. Odd
 5. Odd 6. Even
- E** 1. f 2. e 3. d 4. c
 5. b 6. a
- F** 1. $6 + 2 = 8$ Even 2. $7 + 2 = 9$ odd
 3. $5 + 1 = 6$ Even 4. $4 + 3 = 7$ Odd
 5. $3 + 3 = 6$ Even
- G** 1. 3011, 3012, 3013, 3014, 3015, 3016
 2. 2000, 2001, 2002, 2003, 2004, 2005
 3. 8621, 8622, 8623, 8624, 8625, 8626
 4. 9992, 9993, 9994, 9995, 9996, 9997

Chapter-Check up

Do it yourself.

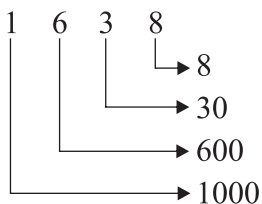
CHAPTER - 2

Practice Time 2.1

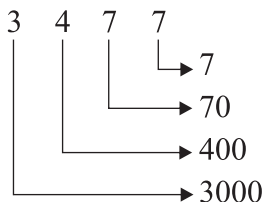
A	Th	H	T	O	B	Th	H	T	O
1.	3	0	1	7	1.	3	5	1	2
2.	4	2	2	6	2.	6	1	1	4
3.	2	4	0	5	3.	4	0	5	3
4.	6	0	3	4	4.	2	0	5	0

Practice Time 2.2

A 1. **Th H T O**



2. Th H T O



- B** 1. 70 2. 400 3. 600 4. 9000
5. 800 6. 50

- C** 1. $7000 + 300 + 20 + 8$ 2. $6000 + 500 + 30 + 4$
3. $2000 + 900 + 40 + 5$ 4. $8000 + 400 + 60 + 3$

- D** 1. 4536 2. 7208 3. 8130 4. 6009
5. 5678

Practice Time 2.3

- A** 1. = 2. = 3. < 4. =
5. = 6. > 7. = 8. >

- B** 1. < 2. < 3. < 4. >
5. > 6. >

- C** 1. 5100, 5010, 5001 2. 9752, 7295, 5927
3. 8642, 4286, 2864

- D** 1. 5004, 5048, 5408 2. 1205, 1502, 1900
3. 4256, 4526, 4652

Practice Time 2.4

- A** 1. 8420 2. 7521 3. 8721 4. 9752

5. 8630 6. 6430
- B** 1. 1238 2. 1256 3. 3467 4. 1258
5. 1235 6. 2458
- C** 1. 4214 2. 3980 3. 7245 4. 6244
5. 5322 6. 4295 7. 3519 8. 8263
9. 6885 10. 2631 11. 9762 12. 4356
13. 4420 14. 4405 15. 1673 16. 2836

Practice Time 2.5

- A** 1. 30 2. 40 3. 90 4. 60
5. 70 6. 10
- B** 1. 40 and 50, 50 2. 30 and 40, 40
3. 20 and 30, 30 4. 50 and 60, 50
5. 70 and 80, 80 6. 80 and 90, 80
- C** 2. (a) 300 3. (a) 450 trees

Chapter - Cheek-up. Do it yourself.

CHAPTER - 3

Practice Time 3.1

- A** 1.
$$\begin{array}{r} 756 \\ + 285 \\ \hline 1041 \end{array}$$
2.
$$\begin{array}{r} 684 \\ + 259 \\ \hline 943 \end{array}$$
3.
$$\begin{array}{r} 476 \\ + 364 \\ \hline 840 \end{array}$$
4.
$$\begin{array}{r} 536 \\ + 197 \\ \hline 733 \end{array}$$
5.
$$\begin{array}{r} 548 \\ + 297 \\ \hline 845 \end{array}$$
6.
$$\begin{array}{r} 244 \\ + 498 \\ \hline 742 \end{array}$$
7.
$$\begin{array}{r} 853 \\ + 678 \\ \hline 1531 \end{array}$$
8.
$$\begin{array}{r} 859 \\ + 561 \\ \hline 1420 \end{array}$$
9.
$$\begin{array}{r} 987 \\ + 235 \\ \hline 1222 \end{array}$$
10.
$$\begin{array}{r} 163 \\ 422 \\ + 287 \\ \hline 872 \end{array}$$
11.
$$\begin{array}{r} 284 \\ 463 \\ + 128 \\ \hline 875 \end{array}$$
12.
$$\begin{array}{r} 325 \\ 172 \\ + 456 \\ \hline 953 \end{array}$$

B 1.	$\begin{array}{r} 493 \\ + 369 \\ \hline 862 \end{array}$	2.	$\begin{array}{r} 375 \\ + 447 \\ \hline 822 \end{array}$	3.	$\begin{array}{r} 652 \\ + 169 \\ \hline 821 \end{array}$
4.	$\begin{array}{r} 287 \\ + 546 \\ \hline 833 \end{array}$	5.	$\begin{array}{r} 657 \\ + 263 \\ \hline 920 \end{array}$	6.	$\begin{array}{r} 728 \\ + 384 \\ \hline 1112 \end{array}$
7.	$\begin{array}{r} 182 \\ + 329 \\ \hline 511 \end{array}$	8.	$\begin{array}{r} 415 \\ + 298 \\ \hline 713 \end{array}$	9.	$\begin{array}{r} 678 \\ + 147 \\ \hline 825 \end{array}$
10.	$\begin{array}{r} 865 \\ + 987 \\ \hline 1852 \end{array}$	11.	$\begin{array}{r} 978 \\ + 672 \\ \hline 1650 \end{array}$	12.	$\begin{array}{r} 748 \\ + 174 \\ \hline 922 \end{array}$
13.	$\begin{array}{r} 635 \\ + 777 \\ \hline 1412 \end{array}$	14.	$\begin{array}{r} 896 \\ + 527 \\ \hline 1423 \end{array}$	15.	$\begin{array}{r} 584 \\ + 876 \\ \hline 1460 \end{array}$

Practice Time 3.2

A 1.	$\begin{array}{r} 2326 \\ + 3271 \\ \hline 5597 \end{array}$	2.	$\begin{array}{r} 1763 \\ + 4215 \\ \hline 5978 \end{array}$	3.	$\begin{array}{r} 3451 \\ + 6238 \\ \hline 9689 \end{array}$
4.	$\begin{array}{r} 2345 \\ + 6152 \\ \hline 8497 \end{array}$	5.	$\begin{array}{r} 3406 \\ + 5492 \\ \hline 8898 \end{array}$	6.	$\begin{array}{r} 6423 \\ + 2222 \\ \hline 8645 \end{array}$
B 1.	$\begin{array}{r} 3160 \\ + 5201 \\ \hline 8361 \end{array}$	2.	$\begin{array}{r} 4235 \\ + 3222 \\ \hline 7457 \end{array}$	3.	$\begin{array}{r} 2534 \\ + 3251 \\ \hline 5785 \end{array}$
4.	$\begin{array}{r} 8015 \\ + 1723 \\ \hline 9738 \end{array}$	5.	$\begin{array}{r} 2666 \\ + 1023 \\ \hline 3689 \end{array}$	6.	$\begin{array}{r} 6132 \\ + 2543 \\ \hline 8675 \end{array}$

$$\begin{array}{r}
 7. \quad 7 \ 2 \ 0 \ 4 \\
 + \ 2 \ 4 \ 7 \ 2 \\
 \hline
 9 \ 6 \ 7 \ 6
 \end{array}
 \quad
 \begin{array}{r}
 8. \quad 1 \ 9 \ 4 \ 3 \\
 + \ 7 \ 0 \ 2 \ 5 \\
 \hline
 8 \ 9 \ 6 \ 8
 \end{array}
 \quad
 \begin{array}{r}
 9. \quad 5 \ 3 \ 2 \ 6 \\
 + \ 2 \ 4 \ 1 \ 3 \\
 \hline
 7 \ 7 \ 3 \ 9
 \end{array}$$

Practice Time 3.3

1. Number of bulbs produced in first day = 382

Number of bulbs produced in second day = 525

Total number of bulbs produced in these two days

$$\begin{array}{r}
 \text{H T O} \qquad \qquad = 382 + 525 \\
 3 \ 8 \ 2 \\
 + \ 5 \ 2 \ 5 \\
 \hline
 9 \ 0 \ 7
 \end{array}$$

Therefore, 907 bulbs were produced in 2 days.

2. Number of kites sold on Wednesday = 275

Number of kites sold on Thursday = 356

Total number of kites sold on both the days = 275 + 356

$$\begin{array}{r}
 \text{H T O} \\
 2 \ 7 \ 5 \\
 + \ 3 \ 5 \ 6 \\
 \hline
 6 \ 3 \ 1
 \end{array}$$

Therefore, 631 kites were produced on both the days.

3. Number of women = 238

Number of men = 157

Total number of people = 238 + 157

$$\begin{array}{r}
 \text{H T O} \\
 2 \ 3 \ 8 \\
 + \ 1 \ 5 \ 7 \\
 \hline
 3 \ 9 \ 5
 \end{array}$$

Therefore, 395 people were there in all.

Chapter check-up = Do it yourself

CHAPTER - 4

Practice Time 4.1

- A**
- | | | | |
|--------|---------|---------|--------|
| 1. 24 | 2. 333 | 3. 32 | 4. 32 |
| 5. 24 | 6. 33 | 7. 102 | 8. 121 |
| 9. 324 | 10. 122 | 11. 146 | 12. 52 |
- B**
- | | | | |
|--------|---------|---------|--------|
| 1. 51 | 2. 22 | 3. 52 | 4. 41 |
| 5. 209 | 6. 26 | 7. 254 | 8. 398 |
| 9. 154 | 10. 113 | 11. 275 | 12. 13 |

- C** Total number of stamps = 65
 Number of stamps not pasted = 24
 Number of stamps pasted = $65 - 24$
 Therefore, 41 stamps were pasted in all.

$$\begin{array}{r} 65 \\ - 24 \\ \hline 41 \end{array}$$

- D** Number of shells collected by Mayank = 90
 Number of shells left in the shop = 70
 Number of shells sold = $90 - 70 = 20$
 Therefore, 20 shells were sold

- E** Total money with Kirti = 125
 Cost of a book = ₹256
 Money needed by Kirti to buy this book = ₹256 – ₹125

$$\begin{array}{r} 256 \\ - 125 \\ \hline 131 \end{array}$$

Therefore, 131 books were needed by Kirti.

Practice Time 4.2

- A**
- | | | |
|---|---|---|
| 1. $\begin{array}{r} 647 \\ - 365 \\ \hline 282 \end{array}$ | 2. $\begin{array}{r} 672 \\ - 457 \\ \hline 215 \end{array}$ | 3. $\begin{array}{r} 536 \\ - 158 \\ \hline 378 \end{array}$ |
| 4. $\begin{array}{r} 884 \\ - 648 \\ \hline 236 \end{array}$ | 5. $\begin{array}{r} 796 \\ - 438 \\ \hline 358 \end{array}$ | 6. $\begin{array}{r} 431 \\ - 248 \\ \hline 183 \end{array}$ |

$$\begin{array}{r} 7. \quad 834 \\ - 492 \\ \hline 342 \end{array}$$

$$\begin{array}{r} 8. \quad 254 \\ - 136 \\ \hline 118 \end{array}$$

$$\begin{array}{r} 9. \quad 942 \\ - 576 \\ \hline 366 \end{array}$$

$$\begin{array}{r} 10. \quad 325 \\ - 152 \\ \hline 173 \end{array}$$

$$\begin{array}{r} 11. \quad 365 \\ - 236 \\ \hline 129 \end{array}$$

$$\begin{array}{r} 12. \quad 658 \\ - 489 \\ \hline 169 \end{array}$$

$$\text{B } 1. \quad \begin{array}{r} 452 \\ - 237 \\ \hline 215 \end{array}$$

$$2. \quad \begin{array}{r} 584 \\ - 348 \\ \hline 236 \end{array}$$

$$3. \quad \begin{array}{r} 438 \\ - 174 \\ \hline 264 \end{array}$$

$$\begin{array}{r} 4. \quad 662 \\ - 425 \\ \hline 237 \end{array}$$

$$\begin{array}{r} 5. \quad 794 \\ - 256 \\ \hline 538 \end{array}$$

$$\begin{array}{r} 6. \quad 253 \\ - 125 \\ \hline 128 \end{array}$$

$$\begin{array}{r} 7. \quad 825 \\ - 593 \\ \hline 232 \end{array}$$

$$\begin{array}{r} 8. \quad 975 \\ - 539 \\ \hline 436 \end{array}$$

$$\begin{array}{r} 9. \quad 360 \\ - 142 \\ \hline 218 \end{array}$$

$$\begin{array}{r} 10. \quad 824 \\ - 586 \\ \hline 238 \end{array}$$

$$\begin{array}{r} 11. \quad 550 \\ - 235 \\ \hline 315 \end{array}$$

$$\begin{array}{r} 12. \quad 958 \\ - 785 \\ \hline 173 \end{array}$$

$$\begin{array}{r} 13. \quad 400 \\ - 232 \\ \hline 168 \end{array}$$

$$\begin{array}{r} 14. \quad 645 \\ - 457 \\ \hline 188 \end{array}$$

$$\begin{array}{r} 15. \quad 549 \\ - 364 \\ \hline 185 \end{array}$$

Practice Time 4.3

$$\text{A } 1. \quad \begin{array}{r} 280 \\ - 142 \\ \hline 138 \end{array}$$

$$2. \quad \begin{array}{r} 608 \\ - 435 \\ \hline 173 \end{array}$$

$$3. \quad \begin{array}{r} 306 \\ - 172 \\ \hline 134 \end{array}$$

$$\begin{array}{r} 4. \quad 570 \\ - 343 \\ \hline 227 \end{array}$$

$$\begin{array}{r} 5. \quad 350 \\ - 235 \\ \hline 115 \end{array}$$

$$\begin{array}{r} 6. \quad 405 \\ - 242 \\ \hline 163 \end{array}$$

$$\begin{array}{r} 7. \quad 705 \\ - 363 \\ \hline 342 \end{array}$$

$$\begin{array}{r} 8. \quad 940 \\ - 536 \\ \hline 404 \end{array}$$

$$\begin{array}{r} 9. \quad 301 \\ - 159 \\ \hline 142 \end{array}$$

$$\begin{array}{r} 10. \quad 690 \\ - 248 \\ \hline 442 \end{array}$$

$$\begin{array}{r} 11. \quad 800 \\ - 428 \\ \hline 372 \end{array}$$

$$\begin{array}{r} 12. \quad 700 \\ - 354 \\ \hline 346 \end{array}$$

$$\text{B } 1. \quad \begin{array}{r} 740 \\ - 426 \\ \hline 314 \end{array}$$

$$\begin{array}{r} 2. \quad 501 \\ - 347 \\ \hline 154 \end{array}$$

$$\begin{array}{r} 3. \quad 812 \\ - 689 \\ \hline 123 \end{array}$$

$$\begin{array}{r} 4. \quad 301 \\ - 178 \\ \hline 123 \end{array}$$

$$\begin{array}{r} 5. \quad 706 \\ - 555 \\ \hline 151 \end{array}$$

$$\begin{array}{r} 6. \quad 808 \\ - 457 \\ \hline 351 \end{array}$$

$$\begin{array}{r} 7. \quad 600 \\ - 469 \\ \hline 131 \end{array}$$

$$\begin{array}{r} 8. \quad 400 \\ - 216 \\ \hline 184 \end{array}$$

$$\begin{array}{r} 9. \quad 911 \\ - 786 \\ \hline 125 \end{array}$$

$$\begin{array}{r} 10. \quad 512 \\ - 255 \\ \hline 257 \end{array}$$

$$\begin{array}{r} 11. \quad 716 \\ - 478 \\ \hline 238 \end{array}$$

$$\begin{array}{r} 12. \quad 605 \\ - 382 \\ \hline 223 \end{array}$$

$$\begin{array}{r} 13. \quad 413 \\ - 275 \\ \hline 138 \end{array}$$

$$\begin{array}{r} 14. \quad 380 \\ - 169 \\ \hline 211 \end{array}$$

$$\begin{array}{r} 15. \quad 530 \\ - 218 \\ \hline 312 \end{array}$$

Practice Time 4.4

$$\text{A } 1. \quad \begin{array}{r} 254 \\ - 125 \\ \hline 129 \end{array} \quad \begin{array}{r} 129 \\ + 125 \\ \hline 254 \end{array}$$

$$\begin{array}{r} 2. \quad 617 \\ - 253 \\ \hline 364 \end{array} \quad \begin{array}{r} 364 \\ + 253 \\ \hline 617 \end{array}$$

$$\begin{array}{r} 3. \quad 546 \\ - 325 \\ \hline 221 \end{array} \quad \begin{array}{r} 325 \\ + 221 \\ \hline 546 \end{array}$$

$$\begin{array}{r} 4. \quad 546 \\ - 325 \\ \hline 221 \end{array} \quad \begin{array}{r} 221 \\ + 325 \\ \hline 546 \end{array}$$

$$\begin{array}{r} 5. \quad 875 \\ - 542 \\ \hline 333 \end{array} \quad \begin{array}{r} 542 \\ + 333 \\ \hline 875 \end{array}$$

$$\begin{array}{r} 6. \quad 701 \\ - 456 \\ \hline 245 \end{array} \quad \begin{array}{r} 245 \\ + 456 \\ \hline 701 \end{array}$$

B 2.

$$\begin{array}{r} 239 \\ + 565 \\ \hline 804 \end{array}$$

3.

$$\begin{array}{r} 243 \\ + 367 \\ \hline 610 \end{array}$$

4.

$$\begin{array}{r} 243 \\ + 680 \\ \hline 823 \end{array}$$

Practice Time 4.5

A 1.

$$\begin{array}{r} 9546 \\ - 7234 \\ \hline 2312 \end{array}$$

2.

$$\begin{array}{r} 8694 \\ - 6243 \\ \hline 2451 \end{array}$$

3.

$$\begin{array}{r} 8467 \\ - 5236 \\ \hline 3231 \end{array}$$

4.

$$\begin{array}{r} 3697 \\ - 2543 \\ \hline 1154 \end{array}$$

5.

$$\begin{array}{r} 5689 \\ - 1536 \\ \hline 4153 \end{array}$$

6.

$$\begin{array}{r} 6857 \\ - 4523 \\ \hline 2334 \end{array}$$

7.

$$\begin{array}{r} 2368 \\ - 1235 \\ \hline 1133 \end{array}$$

8.

$$\begin{array}{r} 4753 \\ - 3241 \\ \hline 1512 \end{array}$$

B 1.

$$\begin{array}{r} 8654 \\ - 2431 \\ \hline 6223 \end{array}$$

2.

$$\begin{array}{r} 4678 \\ - 3253 \\ \hline 1425 \end{array}$$

3.

$$\begin{array}{r} 6477 \\ - 4256 \\ \hline 2221 \end{array}$$

4.

$$\begin{array}{r} 7542 \\ - 5231 \\ \hline 2311 \end{array}$$

5.

$$\begin{array}{r} 5678 \\ - 3254 \\ \hline 2424 \end{array}$$

6.

$$\begin{array}{r} 9999 \\ - 4526 \\ \hline 5473 \end{array}$$

Practice Time 4.6

$$\begin{array}{r} \text{A } 1. \quad 69 \rightarrow 70 \\ +23 \rightarrow 20 \\ \hline 92 \quad 90 \end{array}$$

$$\begin{array}{r} 2. \quad 43 \rightarrow 40 \\ +18 \rightarrow 20 \\ \hline 61 \quad 60 \end{array}$$

$$\begin{array}{r} 3. \quad 57 \rightarrow 60 \\ +21 \rightarrow 20 \\ \hline 78 \quad 80 \end{array}$$

$$\begin{array}{r} \text{B } 1. \quad 82 \rightarrow 80 \\ -58 \rightarrow 60 \\ \hline 24 \quad 20 \end{array}$$

$$\begin{array}{r} 2. \quad 38 \rightarrow 40 \\ -24 \rightarrow 20 \\ \hline 14 \quad 20 \end{array}$$

$$\begin{array}{r} 3. \quad 67 \rightarrow 70 \\ -33 \rightarrow 30 \\ \hline 34 \quad 40 \end{array}$$

14 is rounded off to 10 but the answer is 20
34 is rounded off to 30 but the answer is 40.

C 1.	Estimation	Actual
	80	84
	-50	-51
	<u>30</u>	<u>33</u>

2.	Estimation	Actual
	40	39
	+40	+44
	<u>80</u>	<u>83</u>

3.	Estimation	Actual
	70	69
	+60	+61
	<u>130</u>	<u>130</u>

4.	Estimation	Actual
	70	66
	-20	-18
	<u>50</u>	<u>48</u>

5.	Estimation	Actual
	40	39
	+70	+71
	<u>110</u>	<u>110</u>

Practice Time 4.7

1. Total number of people in Theatre = 542

Number of people went out = 231

Number of people left in the theatre = $542 - 231$

$$\begin{array}{r} 542 \\ - 231 \\ \hline 311 \end{array}$$

Therefore, 311 people left in the theatre.

2. Total money with Manvi = ₹ 148

Cost of guitar = ₹ 860

Money needed more to buy the guitar = ₹ $860 - 148$

$$\begin{array}{r} 860 \\ - 148 \\ \hline 712 \end{array}$$

Therefore, ₹ 712 was needed more to buy the guitar.

3. Amount in the bank account = ₹ 735

Money spend on buying gift pack = ₹ 418

Amount left in the bank account = ₹ $735 - 418$

$$\begin{array}{r} 735 \\ - 418 \\ \hline 317 \end{array}$$

Therefore, 317 was left in the bank account.

4. Total number of students in the school = 3500

Number of boys = 2185

Number of girls = 3500 – 2185

$$\begin{array}{r} 3500 \\ - 2185 \\ \hline 1315 \end{array}$$

Therefore, 1315 girls were in the school.

5. Population in 2015 = 2576

Population in 2016 = 5897

Difference of population = 5897 – 2576

$$\begin{array}{r} 5897 \\ - 2576 \\ \hline 3321 \end{array}$$

Therefore, 3321 is the difference in population.

CHAPTER - 5

Practice Time 5.1

- | | | | | |
|----------|--------|--------|--------|--------|
| A | 1. 40 | 2. 12 | 3. 24 | 4. 63 |
| | 5. 14 | 6. 72 | 7. 27 | 8. 42 |
| | 9. 15 | 10. 32 | 11. 18 | 12. 35 |
| | 13. 54 | 14. 36 | 15. 72 | |

B In Words

Multiplication

- | | |
|-------|-------------------|
| - | 12 |
| 24 | 24 |
| Nines | 18 |
| - | 5×7 |
| - | 4×5 |
| 6 | $6 \times 1 = 6$ |
| 7 | $7 \times 3 = 21$ |

Practice Time 5.2

1. $\underline{10} \times 5$

3. $10 \times 1 = \underline{10}$

5. $\underline{10} \times 6 = \underline{6} \times 10$

7. $3 \times \underline{6} = 6 \times 3$

9. $8 \times \underline{9} = 9 \times \underline{8}$

11. $\underline{5} \times 4 = \underline{4} \times 5$

13. $6 \times 8 = 8 \times \underline{6}$

2. $23 \times 1 = \underline{23}$

4. $4 \times \underline{7} = 7 \times \underline{4}$

6. $7 \times \underline{0} = 0$

8. $9 \times 1 = \underline{9}$

10. $28 \times 0 = \underline{0}$

12. $9 \times 2 = \underline{2} \times 9$

14. $99 \times 1 = \underline{99}$

Practice Time 5.3

A 1. 90

2. 50

3. 150

4. 60

5. 120

6. 100

7. 700

8. 800

9. 450

B 1. 37×50

$$\begin{array}{r} 37 \\ \times 5 \\ \hline 185 \end{array}$$

$\therefore 37 \times 50 = 1850$

3. 76×30

$$\begin{array}{r} 76 \\ \times 3 \\ \hline 228 \end{array}$$

$\therefore 76 \times 30 = 2280$

5. 12×30

$$\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array}$$

$\therefore 12 \times 30 = 360$

2. 82×60

$$\begin{array}{r} 82 \\ \times 6 \\ \hline 492 \end{array}$$

$\therefore 82 \times 60 = 4920$

4. 85×40

$$\begin{array}{r} 85 \\ \times 4 \\ \hline 340 \end{array}$$

$\therefore 85 \times 40 = 3400$

6. 13×70

$$\begin{array}{r} 13 \\ \times 7 \\ \hline 91 \end{array}$$

$\therefore 13 \times 70 = 910$

Practice Time 5.4

$$\begin{array}{r} \text{A } 1. \quad 13 \\ \times 3 \\ \hline 39 \end{array}$$

$$\begin{array}{r} 2. \quad 23 \\ \times 2 \\ \hline 46 \end{array}$$

$$\begin{array}{r} 3. \quad 43 \\ \times 2 \\ \hline 86 \end{array}$$

$$\begin{array}{r} 4. \quad 34 \\ \times 2 \\ \hline 68 \end{array}$$

$$\begin{array}{r} 5. \quad 22 \\ \times 2 \\ \hline 44 \end{array}$$

$$\begin{array}{r} 6. \quad 33 \\ \times 3 \\ \hline 99 \end{array}$$

$$\begin{array}{r} 7. \quad 44 \\ \times 2 \\ \hline 88 \end{array}$$

$$\begin{array}{r} 8. \quad 23 \\ \times 3 \\ \hline 69 \end{array}$$

$$\begin{array}{r} \text{B } 1. \quad 12 \\ \times 2 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 2. \quad 23 \\ \times 3 \\ \hline 69 \end{array}$$

$$\begin{array}{r} 3. \quad 42 \\ \times 2 \\ \hline 84 \end{array}$$

$$\begin{array}{r} 4. \quad 32 \\ \times 2 \\ \hline 64 \end{array}$$

$$\begin{array}{r} 5. \quad 21 \\ \times 4 \\ \hline 84 \end{array}$$

Practice Time 5.5

$$\begin{array}{r} 1. \quad 75 \\ \times 6 \\ \hline 450 \end{array}$$

$$\begin{array}{r} 2. \quad 55 \\ \times 5 \\ \hline 275 \end{array}$$

$$\begin{array}{r} 3. \quad 72 \\ \times 5 \\ \hline 360 \end{array}$$

$$\begin{array}{r} 4. \quad 28 \\ \times 6 \\ \hline 168 \end{array}$$

$$\begin{array}{r} 5. \quad 34 \\ \times 2 \\ \hline 68 \end{array}$$

$$\begin{array}{r} 6. \quad 76 \\ \times 4 \\ \hline 304 \end{array}$$

$$\begin{array}{r} 7. \quad 65 \\ \times 3 \\ \hline 195 \end{array}$$

$$\begin{array}{r} 8. \quad 97 \\ \times 5 \\ \hline 485 \end{array}$$

$$\begin{array}{r} 9. \quad 79 \\ \times 5 \\ \hline 395 \end{array}$$

$$\begin{array}{r} 10. \quad 87 \\ \times 6 \\ \hline 522 \end{array}$$

$$\begin{array}{r} 11. \quad 24 \\ \times 7 \\ \hline 168 \end{array}$$

$$\begin{array}{r} 12. \quad 77 \\ \times 4 \\ \hline 308 \end{array}$$

Practice Time 5.6

1. Cost of one packet pencil = ₹ 45
 Cost of 7 packets of pencils = 7×45
- $$\begin{array}{r} 45 \\ \times 7 \\ \hline 315 \end{array}$$

Therefore, ₹ 315 was the cost of 7 packets of pencils

2. Total number of rows = 42
 Number of desks in each row = 5
 Number of desks in 42 rows = 42×5
- $$\begin{array}{r} 42 \\ \times 5 \\ \hline 210 \end{array}$$

Therefore, 210 desks were there in all

3. Number of bunches of balloons = 26
 Number of balloons in each bunch = 8
 Total number of balloons in 26
- $$\begin{array}{r} 26 \\ \times 8 \\ \hline 208 \end{array}$$

bunches = 26×8

Therefore, 208 balloons were in 26 bunches.

4. Number of pens in one box = 36
 Number of boxes = 7
 Total number of pens in 7 boxes = 36×7
- $$\begin{array}{r} 36 \\ \times 7 \\ \hline 252 \end{array}$$

Therefore, 252 pens were in 7 boxes.

5. Cost of one geometry box = ₹ 72
 Cost of 9 geometry boxes = 72×9
- $$\begin{array}{r} 72 \\ \times 9 \\ \hline 648 \end{array}$$

Therefore, ₹ 648 was the cost of 9 geometry boxes.

6. Number of chalksticks in one box = 45
 Number of boxes = 8
 Number of chalksticks in 8 boxes = 45×8
- $$\begin{array}{r} 45 \\ \times 8 \\ \hline 360 \end{array}$$

Therefore, 360 chalksticks were in 8 boxes.

Practice Time 5.7

1. 36×25
 Rounding off

- | | |
|--|---|
| $36 \rightarrow 40$
$25 \rightarrow 30$
2. 47×36
Rounding off
$47 \rightarrow 50$
$36 \rightarrow 40$ | $\begin{array}{r} 40 \\ \times 30 \\ \hline 1200 \end{array}$ |
| 3. 32×45
Rounding off
$32 \rightarrow 30$
$45 \rightarrow 50$ | $\begin{array}{r} 50 \\ \times 40 \\ \hline 2000 \end{array}$ |
| 4. 42×32
Rounding off
$42 \rightarrow 40$
$32 \rightarrow 30$ | $\begin{array}{r} 30 \\ \times 50 \\ \hline 1500 \end{array}$ |
| 5. 44×43
Rounding off
$44 \rightarrow 40$
$43 \rightarrow 40$ | $\begin{array}{r} 40 \\ \times 40 \\ \hline 1600 \end{array}$ |
| 6. 52×24
Rounding off
$52 \rightarrow 50$
$24 \rightarrow 20$ | $\begin{array}{r} 50 \\ \times 20 \\ \hline 1000 \end{array}$ |

Chapter check-up- Do it yourself.

CHAPTER - 6

Practice Time 6.1

- | | | | |
|--|---|------|---------|
| A 1. 16
5. 4 | 2. 4 | 3. 4 | 4. four |
| B 1. $18 \div 6$
$18 - 6 = 12$
$12 - 6 = 6$ | 2. $12 \div 2$
$12 - 2 = 10$
$10 - 2 = 8$ | | |

$$6 - 6 = 0$$

$$\therefore 18 \div 6 = 3$$

$$8 - 2 = 6$$

$$6 - 2 = 4$$

$$4 - 2 = 2$$

$$2 - 2 = 0$$

$$\therefore 12 \div 2 = 6$$

3. $32 \div 4$

$$32 - 4 = 28$$

$$28 - 4 = 24$$

$$24 - 4 = 20$$

$$20 - 4 = 16$$

$$16 - 4 = 12$$

$$12 - 4 = 8$$

$$8 - 4 = 4$$

$$4 - 4 = 0$$

$$\therefore 32 \div 4 = 8$$

5. $25 \div 5$

$$25 - 5 = 20, 20 - 5 = 15, 15 - 5 = 10, 10 - 5 = 5, 5 - 5 = 0$$

$$\therefore 25 \div 5 = 5$$

6. $49 \div 7$

$$49 - 7 = 42, 42 - 7 = 35, 35 - 7 = 28, 28 - 7 = 21$$

$$21 - 7 = 14, 14 - 7 = 7, 7 - 7 = 0$$

$$\therefore 49 \div 7 = 7$$

7. $24 \div 3$

$$24 - 3 = 21, 21 - 3 = 18, 18 - 3 = 15, 15 - 3 = 12$$

$$12 - 3 = 9, 9 - 3 = 6, 6 - 3 = 3, 3 - 3 = 0$$

$$\therefore 24 \div 3 = 8$$

8. $56 \div 8$

$$56 - 8 = 48, 48 - 8 = 40, 40 - 8 = 32, 32 - 8 = 24$$

$$24 - 8 = 16, 16 - 8 = 8, 8 - 8 = 0$$

$$\therefore 56 \div 8 = 7$$

Practice Time 6.2

A 1. $63 \div 9 = 7$

2. $12 \div 4 = 3$

3. $24 \div 8 = 3$

4. $54 \div 6 = 9$

5. $30 \div 3 = 10$

6. $35 \div 7 = 5$

$63 \div 7 = 9$

$12 \div 3 = 4$

$24 \div 3 = 8$

$54 \div 9 = 6$

$30 \div 10 = 3$

$35 \div 5 = 7$

B 1. 5

2. 7

3. 8

4. 4

5. 6

6. 8

7. 5

8. 9

9. 5

10. 9

11. 6

12. 8

Practice Time 6.3

A 1. 89

2. 12

3. 56

4. 48

5. 0

6. 0

7. 1

8. 1

9. 1

B 1. $18 \div 18 = 1$

2. $0 \div 7 = 0$

3. $87 \div 87 = 1$

4. $17 \div 17 = 1$

5. $20 \div 1 = 20$

6. $29 \div 1 = 29$

7. $0 \div 28 = 0$

8. $88 \div 88 = 1$

9. $46 \div 46 = 1$

C 1. False

2. True

3. True

4. False

Practice Time 6.4

A 1. $48 \div 8$

$$\begin{array}{r} 8 \overline{)48} 6 \\ -48 \\ \hline 0 \end{array}$$

Q = 6

R = 0

3. $32 \div 8$

$$\begin{array}{r} 8 \overline{)32} 4 \\ -32 \\ \hline 0 \end{array}$$

2. $45 \div 5$

$$\begin{array}{r} 5 \overline{)45} 9 \\ -45 \\ \hline 0 \end{array}$$

Q = 9

R = 0

4. $18 \div 3$

$$\begin{array}{r} 3 \overline{)18} 6 \\ -18 \\ \hline 0 \end{array}$$

$$Q = 4$$

$$R = 0$$

$$5. 72 \div 8$$

$$\begin{array}{r} 8 \overline{) 72} (9 \\ - 72 \\ \hline 0 \end{array}$$

$$Q = 9$$

$$R = 0$$

$$7. 56 \div 8$$

$$\begin{array}{r} 8 \overline{) 56} (7 \\ - 56 \\ \hline 0 \end{array}$$

$$Q = 7$$

$$R = 0$$

$$9. 81 \div 9$$

$$\begin{array}{r} 9 \overline{) 81} (9 \\ - 81 \\ \hline 0 \end{array}$$

$$Q = 9$$

$$R = 0$$

$$B \quad 1. 67 \div 9$$

$$\begin{array}{r} 9 \overline{) 67} (7 \\ - 63 \\ \hline 4 \end{array}$$

$$Q = 7$$

$$R = 4$$

$$3. 47 \div 7$$

$$\begin{array}{r} 7 \overline{) 47} (6 \\ - 42 \\ \hline 5 \end{array}$$

$$Q = 6 \quad R = 5$$

$$Q = 6$$

$$R = 0$$

$$6. 54 \div 6$$

$$\begin{array}{r} 6 \overline{) 54} (9 \\ - 54 \\ \hline 0 \end{array}$$

$$Q = 9$$

$$R = 0$$

$$8. 36 \div 9$$

$$\begin{array}{r} 9 \overline{) 36} (4 \\ - 36 \\ \hline 0 \end{array}$$

$$Q = 4$$

$$R = 0$$

$$2. 24 \div 7$$

$$\begin{array}{r} 7 \overline{) 24} (3 \\ - 21 \\ \hline 3 \end{array}$$

$$Q = 3$$

$$R = 3$$

$$4. 26 \div 4$$

$$\begin{array}{r} 4 \overline{) 26} (6 \\ - 24 \\ \hline 2 \end{array}$$

$$Q = 6 \quad R = 2$$

5. $19 \div 2$

$$\begin{array}{r} 2 \overline{)19} \text{ (9)} \\ -18 \\ \hline 1 \end{array}$$

$Q = 9$

$R = 1$

7. $27 \div 8$

$$\begin{array}{r} 8 \overline{)27} \text{ (3)} \\ -24 \\ \hline 3 \end{array}$$

$Q = 3$

$R = 3$

9. $26 \div 3$

$$\begin{array}{r} 3 \overline{)26} \text{ (8)} \\ -24 \\ \hline 2 \end{array}$$

$Q = 8$

$R = 2$

6. $43 \div 8$

$$\begin{array}{r} 8 \overline{)43} \text{ (5)} \\ -40 \\ \hline 3 \end{array}$$

$Q = 5$

$R = 3$

8. $34 \div 4$

$$\begin{array}{r} 4 \overline{)34} \text{ (8)} \\ -32 \\ \hline 2 \end{array}$$

$Q = 8$

$R = 2$

Practice Time 6.5

A 1. $98 \div 7$

$$\begin{array}{r} 7 \overline{)98} \text{ (14)} \\ -7\downarrow \\ \hline 28 \\ -28 \\ \hline 0 \end{array}$$

$Q = 14$

$R = 0$

2. $63 \div 3$

$$\begin{array}{r} 3 \overline{)63} \text{ (21)} \\ -6\downarrow \\ \hline 03 \\ -3 \\ \hline 0 \end{array}$$

$Q = 21$

$R = 0$

3. $88 \div 2$

$$\begin{array}{r} 2 \overline{)88}(44 \\ -8\downarrow \\ \hline 08 \\ -8 \\ \hline 0 \end{array}$$

$Q = 44$

$R = 0$

5. $55 \div 5$

$$\begin{array}{r} 5 \overline{)55}(11 \\ -5\downarrow \\ \hline 05 \\ -5 \\ \hline 0 \end{array}$$

$Q = 11$

$R = 0$

7. $96 \div 4$

$$\begin{array}{r} 4 \overline{)96}(24 \\ -8\downarrow \\ \hline 16 \\ -16 \\ \hline 0 \end{array}$$

$Q = 24$

$R = 0$

9. $75 \div 5$

$$\begin{array}{r} 5 \overline{)75}(15 \\ -5\downarrow \\ \hline 25 \\ -25 \\ \hline 0 \end{array}$$

$Q = 15$

$R = 0$

4. $64 \div 2$

$$\begin{array}{r} 2 \overline{)64}(32 \\ -6\downarrow \\ \hline 04 \\ -4 \\ \hline 0 \end{array}$$

$Q = 32$

$R = 0$

6. $48 \div 4$

$$\begin{array}{r} 4 \overline{)48}(12 \\ -4\downarrow \\ \hline 08 \\ -8 \\ \hline 0 \end{array}$$

$Q = 12$

$R = 0$

8. $65 \div 5$

$$\begin{array}{r} 5 \overline{)65}(13 \\ -5\downarrow \\ \hline 15 \\ -15 \\ \hline 0 \end{array}$$

$Q = 13$

$R = 0$

10. $58 \div 2$

$$\begin{array}{r} 2 \overline{)58}(29 \\ -4\downarrow \\ \hline 18 \\ -18 \\ \hline 0 \end{array}$$

$Q = 29$

$R = 0$

$$11. 91 \div 7$$

$$\begin{array}{r} 7 \overline{)91}(13 \\ -7\downarrow \\ \hline 21 \\ -21 \\ \hline 0 \end{array}$$

$$Q = 13$$

$$R = 0$$

$$13. 84 \div 4$$

$$\begin{array}{r} 4 \overline{)84}(21 \\ -8\downarrow \\ \hline 04 \\ -4 \\ \hline 0 \end{array}$$

$$Q = 21$$

$$R = 0$$

$$15. 87 \div 3$$

$$\begin{array}{r} 3 \overline{)87}(29 \\ -6\downarrow \\ \hline 27 \\ -27 \\ \hline 0 \end{array}$$

$$Q = 29$$

$$R = 0$$

$$\text{B } 1. 77 \div 4$$

$$\begin{array}{r} 4 \overline{)77}(19 \\ -4\downarrow \\ \hline 37 \\ -36 \\ \hline 1 \end{array}$$

$$Q = 19$$

$$R = 1$$

Check

Dividend = Quotient $\times$ Divisor + Remainder

$$77 = 19 \times 4 + 1, 77 = 76 + 1, 77 = 77$$

$$\text{LHS} = \text{RHS}$$

Hence Verified

$$12. 90 \div 5$$

$$\begin{array}{r} 5 \overline{)90}(18 \\ -5\downarrow \\ \hline 40 \\ -40 \\ \hline 0 \end{array}$$

$$Q = 18$$

$$R = 0$$

$$14. 84 \div 7$$

$$\begin{array}{r} 7 \overline{)84}(12 \\ -7\downarrow \\ \hline 14 \\ -14 \\ \hline 0 \end{array}$$

$$Q = 12$$

$$R = 0$$

2. $77 \div 6$

$$\begin{array}{r} 6 \overline{)77}(12 \\ \underline{-6\downarrow} \\ 17 \\ \underline{-12} \\ 5 \end{array} \quad \begin{array}{l} Q = 12 \\ R = 5 \end{array}$$

Check

Dividend = Quotient $\times$ Divisor + Remainder

$$77 = 12 \times 6 + 5, 77 = 72 + 5, 77 = 77$$

LHS = RHS

Hence Verified

3. $65 \div 2$

$$\begin{array}{r} 2 \overline{)65}(32 \\ \underline{-6\downarrow} \\ 05 \\ \underline{-4} \\ 1 \end{array} \quad \begin{array}{l} Q = 32 \\ R = 1 \end{array}$$

Check

Dividend = Quotient $\times$ Divisor + Remainder

$$65 = 32 \times 2 + 1, 65 = 64 + 1, 65 = 65$$

LHS = RHS

Hence Verified

4. $73 \div 3$

$$\begin{array}{r} 3 \overline{)73}(24 \\ \underline{-6\downarrow} \\ 13 \\ \underline{-12} \\ 1 \end{array} \quad \begin{array}{l} Q = 24 \\ R = 1 \end{array}$$

Check

Dividend = Quotient $\times$ Divisor + Remainder

$$73 = 24 \times 3 + 1, 73 = 72 + 1, 73 = 73$$

LHS = RHS

Hence Verified

5. $87 \div 7$

$$\begin{array}{r} 7 \overline{)87} 12 \\ \underline{-7\downarrow} \\ 17 \\ \underline{-14} \\ 3 \end{array} \quad \begin{array}{l} Q = 12 \\ R = 3 \end{array}$$

Check

Dividend = Quotient $\times$ Divisor + Remainder

$$87 = 12 \times 7 + 3, 87 = 84 + 3, 87 = 87$$

LHS = RHS

Hence Verified

6. $68 \div 5$

$$\begin{array}{r} 5 \overline{)68} 13 \\ \underline{-5\downarrow} \\ 18 \\ \underline{-15} \\ 3 \end{array} \quad \begin{array}{l} Q = 13 \\ R = 3 \end{array}$$

Check

Dividend = Quotient $\times$ Divisor + Remainder

$$68 = 13 \times 5 + 3, 68 = 65 + 3, 68 = 68$$

LHS = RHS

Hence Verified

7. $72 \div 5$

$$\begin{array}{r} 5 \overline{)72} 14 \\ \underline{-5\downarrow} \\ 22 \\ \underline{-20} \\ 2 \end{array} \quad \begin{array}{l} Q = 14 \\ R = 2 \end{array}$$

Check

Dividend = Quotient $\times$ Divisor + Remainder

$$72 = 14 \times 5 + 2$$

$$72 = 70 + 2$$

$$72 = 72$$

LHS = RHS

Hence Verified

8. $57 \div 4$

$$\begin{array}{r} 4 \overline{)57} 14 \\ \underline{-4} \\ 17 \\ \underline{-16} \\ 1 \end{array} \quad \begin{array}{l} Q = 14 \\ R = 1 \end{array}$$

Check

Dividend = Quotient $\times$ Divisor + Remainder

$$57 = 14 \times 4 + 1, 57 = 56 + 1, 57 = 57$$

LHS = RHS

Hence Verified

9. $58 \div 8$

$$\begin{array}{r} 8 \overline{)58} 7 \\ \underline{-56} \\ 2 \end{array} \quad \begin{array}{l} Q = 7 \\ R = 2 \end{array}$$

Check

Dividend = Quotient $\times$ Divisor + Remainder

$$58 = 7 \times 8 + 2, 58 = 56 + 2, 58 = 58$$

LHS = RHS

Hence Verified

10. $95 \div 7$

$$\begin{array}{r} 7 \overline{)95} 13 \\ \underline{-7} \\ 25 \\ \underline{-21} \\ 4 \end{array} \quad \begin{array}{l} Q = 13 \\ R = 4 \end{array}$$

Check

Dividend = Quotient $\times$ Divisor + Remainder

$$95 = 7 \times 13 + 4, 95 = 91 + 4, 95 = 95$$

LHS = RHS

Hence Verified

11. $99 \div 2$

$$\begin{array}{r} 2 \overline{)99} 49 \\ \underline{-8} \\ 19 \\ \underline{-18} \\ 1 \end{array} \quad \begin{array}{l} Q = 49 \\ R = 1 \end{array}$$

Check

Dividend = Quotient $\times$ Divisor + Remainder

$$99 = 2 \times 49 + 1, \quad 99 = 98 + 1, \quad 99 = 99$$

$$\text{LHS} = \text{RHS}$$

Hence Verified

12. $82 \div 9$

$$\begin{array}{r} 9 \overline{)82} 9 \\ -81 \\ \hline 1 \end{array}$$

$$Q = 9$$

$$R = 1$$

Check

Dividend = Quotient $\times$ Divisor + Remainder

$$82 = 9 \times 9 + 1, \quad 82 = 81 + 1, \quad 82 = 82$$

$$\text{LHS} = \text{RHS}$$

Hence Verified

13. $64 \div 5$

$$\begin{array}{r} 5 \overline{)64} 12 \\ -5\downarrow \\ \hline 14 \\ -02 \\ \hline 4 \end{array}$$

$$Q = 12$$

$$R = 4$$

Check

Dividend = Quotient $\times$ Divisor + Remainder

$$64 = 12 \times 5 + 4, \quad 64 = 60 + 4, \quad 64 = 64$$

$$\text{LHS} = \text{RHS}$$

Hence Verified

14. $86 \div 3$

$$\begin{array}{r} 3 \overline{)86} 28 \\ -6\downarrow \\ \hline 26 \\ -24 \\ \hline 2 \end{array}$$

$$Q = 28$$

$$R = 2$$

Check

Dividend = Quotient $\times$ Divisor + Remainder

$$86 = 3 \times 28 + 2, \quad 86 = 84 + 2, \quad 86 = 86$$

$$\text{LHS} = \text{RHS}$$

Hence Verified

15. $71 \div 4$

$$\begin{array}{r} 4 \overline{)71} (17 \\ \underline{-4\downarrow} \\ 31 \\ \underline{-28} \\ 3 \end{array}$$

$Q = 17$

$R = 3$

Check

$\text{Dividend} = \text{Quotient} \times \text{Divisor} + \text{Remainder}$

$71 = 4 \times 17 + 3, 71 = 68 + 3, 71 = 71$

$\text{LHS} = \text{RHS}$

Hence Verified

Practice Time 6.6

1. Total number of flowers = 54

Number of flower pots = 6

Number of flowers in each pot = $54 \div 6$

Therefore, each flower pot had 9 flowers.

$$\begin{array}{r} 6 \overline{)54} (9 \\ \underline{-54} \\ 0 \end{array}$$

2. Total number of burgers = 30

Number of students = 10

Number of burgers with each student = $30 \div 10$

Therefore, each student got 3 burgers.

$$\begin{array}{r} 10 \overline{)30} (3 \\ \underline{-30} \\ 0 \end{array}$$

3. Total number of plants = 85

Number of persons = 5

Number of plants planted by each

person = $85 \div 5$

Therefore, 17 plants were planted by each person.

$$\begin{array}{r} 5 \overline{)85} (17 \\ \underline{-5\downarrow} \\ 35 \\ \underline{-35} \\ 0 \end{array}$$

4. Total number of houses = 42

Number of blocks = 6

Number of houses in each block = $42 \div 6$

Therefore, 7 houses were in each block.

$$\begin{array}{r} 6 \overline{)42} (7 \\ \underline{-42} \\ 0 \end{array}$$

5. Total amount contributed = ₹40

Number of friends = 4

Amount contributed by each friend = $40 \div 4$

$$\begin{array}{r}
 4 \overline{)40}(10 \\
 \underline{-4\downarrow} \\
 00 \\
 \underline{-0} \\
 0
 \end{array}$$

Therefore, ₹10 was contributed by each friend.

CHAPTER - 7

Practice Time 7.1

A 2, 5, 6, 7

B 3, 4, 7

C 2, 3, 5

D 2, 6, 5

E Do it yourself.

F Do it yourself.

G 2. $\frac{2}{5}, \frac{3}{5}$

3. $\frac{6}{8}, \frac{2}{8}$

Practice Time 7.2

A Do it yourself.

B 2. $\frac{3}{6}, \frac{3}{6}$

3. $\frac{3}{9}, \frac{6}{9}$

C 1. $\frac{1}{4}$ of 36

$$36 \div 4 = 9$$

2. $\frac{1}{3}$ of 18

$$18 \div 3 = 6$$

3. $\frac{1}{2}$ of 50

$$50 \div 2 = 25$$

4. $\frac{1}{4}$ of 28

$$28 \div 4 = 7$$

5. $\frac{1}{2}$ of 20 = $20 \div 2 = 10$

6. $\frac{1}{3}$ of 30 = $30 \div 3 = 10$

7. $\frac{1}{4}$ of 32 = $32 \div 4 = 8$

8. $\frac{1}{2}$ of 36 = $36 \div 2 = 18$

9. $\frac{1}{3}$ of 21 = $21 \div 3 = 7$

Practice Time 7.3

- A** 1. Denominator
3. Numerator
5. Denominator

2. Denominator
4. Numerator
6. Denominator

- B** 1. $\frac{7}{13}$ 2. $\frac{11}{16}$
5. $\frac{5}{12}$ 6. $\frac{4}{9}$

	2	3	4	5	6
C Numerator	7	3	5	0	2
Denominator	8	7	5	12	9
Fraction	7/8	3/7	5/5	0/12	2/9

CHAPTER - 8

Practice Time 8.1

- A** 1. $18 \text{ m } 26 \text{ cm} = 18 \text{ m} + 26 \text{ cm}$
 $= 18 \times 100 \text{ cm} + 26 \text{ cm} = 1800 \text{ cm} + 26 \text{ cm}$
 $= 1826 \text{ cm}$
2. $8 \text{ m } 9 \text{ cm} = 8 \text{ m} + 9 \text{ cm}$
 $= 8 \times 100 \text{ cm} + 9 \text{ cm} = 800 \text{ cm} + 9 \text{ cm} = 809 \text{ cm}$
3. $9 \text{ m } 90 \text{ cm} = 9 \text{ m} + 90 \text{ cm}$
 $= 9 \times 100 \text{ cm} + 90 \text{ cm} = 900 \text{ cm} + 90 \text{ cm}$
 $= 990 \text{ cm}$
4. $5 \text{ m } 5 \text{ cm} = 5 \text{ m} + 5 \text{ cm}$
 $= 5 \times 100 \text{ cm} + 5 \text{ cm} = 500 \text{ cm} + 5 \text{ cm} = 505 \text{ cm}$
5. $6 \text{ m } 75 \text{ cm}$
 $= 6 \text{ m} + 75 \text{ cm} = 6 \times 100 \text{ cm} + 75 \text{ cm}$
 $= 600 \text{ cm} + 75 \text{ cm} = 675 \text{ cm}$
6. $3 \text{ m } 20 \text{ cm} = 3 \text{ m} + 20 \text{ cm}$
 $= 3 \times 100 \text{ cm} + 20 \text{ cm} = 300 \text{ cm} + 20 \text{ cm} = 320 \text{ cm}$

- B**
- $15\text{ m} = 15 \times 100\text{ cm} = 1500\text{ cm}$
 - $8\text{ m} = 8 \times 100\text{ cm} = 800\text{ cm}$
 - $9\text{ m} = 9 \times 100\text{ cm} = 900\text{ cm}$
 - $10\text{ m} = 10 \times 100\text{ cm} = 1000\text{ cm}$
 - $3\text{ m} = 3 \times 100\text{ cm} = 300\text{ cm}$
 - $11\text{ m} = 11 \times 100\text{ cm} = 1100\text{ cm}$
- C**
- $500\text{ cm} = (500 \div 100) = 5\text{ m}$
 - $1100\text{ cm} = (1100 \div 100)\text{ m} = 11\text{ m}$
 - $800\text{ cm} = (800 \div 100)\text{ m} = 8\text{ m}$
 - $600\text{ cm} = (600 \div 100)\text{ m} = 6\text{ m}$
 - $1000\text{ cm} = (1000 \div 100)\text{ m} = 10\text{ m}$
 - $2100\text{ cm} = (2100 \div 100)\text{ m} = 21\text{ m}$

Practice Time 8.2

- | | | | |
|-------|-------|-------|------|
| 1. cm | 2. m | 3. km | 4. m |
| 5. km | 6. cm | | |

Practice Time 8.3

- A**
- 700 g
 - 600 g
 - 500 g
- B**
- 500 g
 - five 50 g
- C**
- $4\text{ l} = 4 \times 1000\text{ ml} = 4000\text{ ml}$
 - $2\text{ l } 550\text{ ml} = 2\text{ l} + 550\text{ ml} = 2 \times 1000\text{ ml} + 550\text{ ml}$
 $= 2000\text{ ml} + 550\text{ ml} = 2550\text{ ml}$
 - $7592\text{ ml} = 7000\text{ ml} + 592\text{ ml}$
 $= (7000 \div 1000)\text{ l} + 592\text{ ml}$
 $= 7\text{ l} + 592\text{ ml} = 7\text{ l } 592\text{ ml}$
 - $5765\text{ ml} = 5000\text{ ml} + 765\text{ ml}$
 $= (5000 \div 1000)\text{ l} + 765\text{ ml}$
 $= 5\text{ l} + 765\text{ ml} = 5\text{ l } 765\text{ ml}$
 - $3\text{ kg } 250\text{ g} = 3\text{ kg} + 250\text{ g}$
 $= 3 \times 1000\text{ g} + 250\text{ g} = 3000\text{ g} + 250\text{ g} = 3250\text{ g}$
 - $9250\text{ g} = 9000\text{ g} + 250\text{ g}$
 $= (9000 \div 1000)\text{ kg} + 250\text{ g}$

$$= 9\text{kg} + 250\text{ g} = 9\text{ kg } 250\text{ g}$$

Chapter check-up - Do it yourself

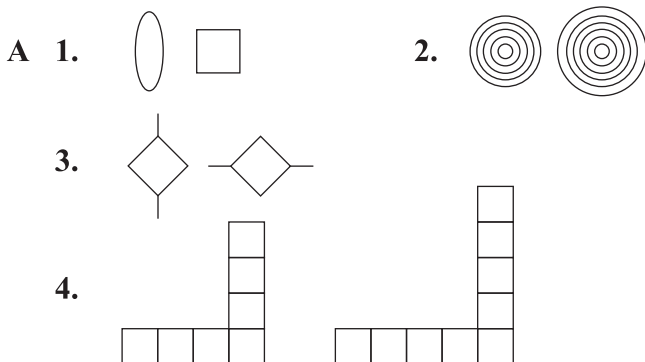
CHAPTER - 9

Practice Time 9.1

A, B Do it yourself.

- C
- | | | |
|---------------------|-------------|-----------------------|
| 1. Edges = 12 | Faces = 6 | Corners = 8 |
| 2. Shape = Cube | Edges = 12 | Faces = 6 Corners = 8 |
| 3. Shape = Cone | Edges = 1 | Faces = 2 Corners = 1 |
| 4. Shape = Sphere | Edges = 0 | Faces = 1 Corners = 0 |
| 5. Shape = Cylinder | Edges = 2 | |
| Faces = 3 | Corners = 0 | |

Practice Time 9.2



- B
- | | | | |
|--------|--------|---------|-------|
| 1. 20, | 2. 54, | 3. 154, | 4. 30 |
| 5. 75 | | | |

Practice Time 9.3

A Do it yourself. B Do it yourself. C Do it yourself.

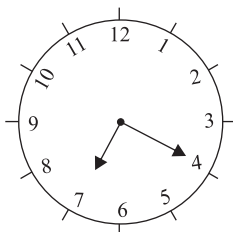
CHAPTER - 10

Practice Time 10.1

- | | | |
|---|---------------|---------------|
| A | 2. 15 minutes | 3. 35 minutes |
| | 4. 25 minutes | 5. 30 minutes |
| | 6. 25 minutes | |

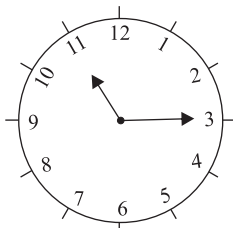
- B**
- 1 : 35 25 minutes to 2
 - 11 : 15 Quarter past 11 or 15 minutes past 11
 - 3 : 55 5 minutes to 4

C 1.



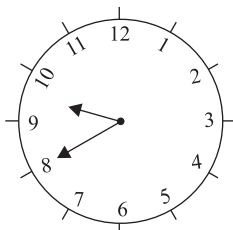
7 : 20 20 minutes past 7

2.



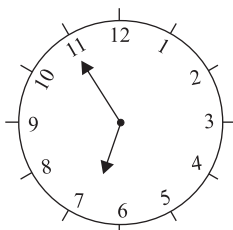
11 : 15 15 minutes past 11
or
Quarter past 11

3.



9 : 40 20 minutes to 10

4.



6 : 55 5 minutes to 7

D 1. d

2. c

3. a

4. b

Practice Time 10.2

A 1. 5 minutes

2. 1 hour

3. 5 minutes

4. 8 hours

5. 15 minutes

- B**
1. $3 \text{ hrs} = 3 \times 60 = 180 \text{ minutes}$
 2. $6 \text{ hrs} = 6 \times 60 = 360 \text{ minutes}$
 3. $10 \text{ days} = 10 \times 24 \text{ hrs} = 240 \text{ hrs}$
 4. $30 \text{ days} = 30 \times 24 = 720 \text{ hrs}$
 5. $7 \text{ days} = 7 \times 24 = 168 \text{ hrs}$
 6. $15 \text{ hrs} = 15 \times 60 = 900 \text{ minutes}$

C Do it yourself.

D 52 weeks

Practice Time 10.3

1. Yes
2. Wednesday
3. Thursday
4. a. Sunday b. Saturday c. Saturday d. Saturday
5. 29th April = 2 days
 May = 31 days June = 3 days
 Total days = 36 days
6. a. 10-03-18 b. 20-04-19
 c. 08-11-19 d. 05-12-18

CHAPTER - 11

Practice Time 11.1

- A**
1. 909 p
 $= 900 \text{ p} + 9 \text{ p} = ₹ (900 \div 100) + 9 \text{ p}$
 $= ₹ 9 + 9 \text{ p} = ₹ 9.09$
 2. 5005 p
 $= 5000 \text{ p} + 5 \text{ p} = ₹ (5000 \div 100) + 5 \text{ p}$
 $= ₹ 50 + 5 \text{ p} = ₹ 50.05$
 3. 9805 p
 $= 9800 \text{ p} + 5 \text{ p} = ₹ (9800 \div 100) + 5 \text{ p}$
 $= ₹ 98 + 5 \text{ p} = ₹ 98.05$
 4. 1415 p
 $= 1400 \text{ p} + 15 \text{ p} = (1400 \div 100) + 15 \text{ p}$
 $= ₹ 14 + 15 \text{ p} = ₹ 14.15$

5. $910 \text{ p} = 900 \text{ p} + 10 \text{ p} = (900 \div 100) + 10 \text{ p}$
 $= ₹ 9 + 10 \text{ p} = ₹ 9.10$
 6. $635 \text{ p} = 600 \text{ p} + 35 \text{ p} = ₹(600 \div 100) + 35 \text{ p}$
 $= ₹ 6 + 35 \text{ p} = ₹ 6.35$
 7. $1200 \text{ p} = ₹ (1200 \div 100) = ₹ 12$
 8. $900 \text{ p} = ₹ (900 \div 100) = ₹ 9$
- B**
1. $₹ 0.05 = 0.05 \times 100 \text{ p} = 5 \text{ p}$
 2. $₹ 0.95 = 0.95 \times 100 \text{ p} = 95 \text{ p}$
 3. $₹ 90.99 = ₹ 90 + 99 \text{ p} = 90 \times 100 \text{ p} + 99 \text{ p}$
 $= 9000 \text{ p} + 99 \text{ p} = 9099 \text{ p}$
 4. $₹ 82.03 = ₹ 82 + 3 \text{ p} = 82 \times 100 \text{ p} + 3 \text{ p}$
 $= 8200 \text{ p} + 3 \text{ p} = 8203 \text{ p}$
 5. $₹ 17.30 = ₹ 17 + 30 \text{ p} = 17 \times 100 \text{ p} + 30 \text{ p}$
 $= 1700 \text{ p} + 30 \text{ p} = 1730 \text{ p}$
 6. $₹ 6.25 = ₹ 6 + 25 \text{ p} = 6 \times 100 \text{ p} + 25 \text{ p}$
 $= 600 \text{ p} + 25 \text{ p} = 625 \text{ p}$
 7. $₹ 90 = 90 \times 100 \text{ p} = 9000 \text{ p}$
 8. $₹ 8 = 8 \times 100 \text{ p} = 800 \text{ p}$

Practice Time 11.2

A 1.

₹	P
29	83
+28	49
58	32

Ans. ₹ 58.32

3.

₹	P
22	46
+89	38
111	84

Ans. ₹ 111.84

2.

₹	P
76	67
+29	34
106	01

Ans. ₹ 106.01

4.

₹	P
123	78
+47	21
170	99

Ans. ₹ 170.99

$$\begin{array}{r} \text{B 1.} \quad \text{₹ P} \\ 29 \ 06 \\ +17 \ 79 \\ \hline 46 \ 85 \end{array}$$

Ans. ₹ 46.85

$$\begin{array}{r} \text{3.} \quad \text{₹ P} \\ 73 \ 49 \\ +72 \ 49 \\ \hline 145 \ 98 \end{array}$$

Ans. ₹ 145.98

$$\begin{array}{r} \text{C 1.} \quad \text{₹ P} \\ 76 \ 28 \\ 48 \ 07 \\ +34 \ 62 \\ \hline 158 \ 97 \end{array}$$

Ans. ₹ 15.97

$$\begin{array}{r} \text{3.} \quad \text{₹ P} \\ 18 \ 29 \\ +16 \ 76 \\ \hline 35 \ 05 \end{array}$$

Ans. ₹ 35.05

$$\begin{array}{r} \text{5.} \quad \text{₹ P} \\ 56 \ 72 \\ +29 \ 38 \\ \hline 86 \ 10 \end{array}$$

Ans. ₹ 86.10

Practice Time 11.3

$$\begin{array}{r} \text{A 1.} \quad \text{₹ P} \\ 85 \ 68 \\ -13 \ 34 \\ \hline 72 \ 34 \end{array}$$

Ans. ₹ 72.34

$$\begin{array}{r} \text{2.} \quad \text{₹ P} \\ 83 \ 06 \\ +72 \ 49 \\ \hline 155 \ 55 \end{array}$$

Ans. ₹ 155.55

$$\begin{array}{r} \text{4.} \quad \text{₹ P} \\ 80 \ 32 \\ +9 \ 85 \\ \hline 90 \ 17 \end{array}$$

Ans. ₹ 90.17

$$\begin{array}{r} \text{2.} \quad \text{₹ P} \\ 112 \ 81 \\ +509 \ 64 \\ \hline 622 \ 45 \end{array}$$

Ans. ₹ 622.45

$$\begin{array}{r} \text{4.} \quad \text{₹ P} \\ 28 \ 49 \\ +92 \ 09 \\ \hline 120 \ 58 \end{array}$$

Ans. ₹ 120.58

$$\begin{array}{r} \text{2.} \quad \text{₹ P} \\ 39 \ 49 \\ -24 \ 26 \\ \hline 15 \ 23 \end{array}$$

Ans. ₹ 15.23

$$\begin{array}{r}
 \text{₹ P} \\
 35 \quad 48 \\
 -21 \quad 36 \\
 \hline
 14 \quad 12
 \end{array}$$

Ans. ₹ 14.12

$$\begin{array}{r}
 \text{₹ P} \\
 95 \quad 38 \\
 -89 \quad 85 \\
 \hline
 05 \quad 53
 \end{array}$$

Ans. ₹ 5.53

$$\begin{array}{r}
 \text{₹ P} \\
 98 \quad 05 \\
 -73 \quad 80 \\
 \hline
 24 \quad 25
 \end{array}$$

Ans. ₹ 24.25

$$\begin{array}{r}
 \text{₹ P} \\
 86 \quad 81 \\
 -19 \quad 03 \\
 \hline
 67 \quad 78
 \end{array}$$

Ans. ₹ 67.78

$$\begin{array}{r}
 \text{₹} \\
 100 \\
 -55 \\
 \hline
 45
 \end{array}$$

Ans. ₹ 45

Practice Time 11.4

$$\begin{array}{r}
 \text{₹ P} \\
 8 \quad . \quad 37 \\
 \times \quad 5 \\
 \hline
 41 \quad 85
 \end{array}$$

Ans. ₹ 41.85

$$\begin{array}{r}
 \text{₹ P} \\
 66 \quad . \quad 95 \\
 \times \quad 4 \\
 \hline
 267 \quad 80
 \end{array}$$

Ans. ₹ 267.80

$$\begin{array}{r}
 \text{₹ P} \\
 16 \quad . \quad 95 \\
 \times \quad 3 \\
 \hline
 50 \quad 85
 \end{array}$$

Ans. ₹ 50.85

B Cost of one litre milk = ₹ 28.25

Cost of 5 litres milk = ₹ 28.25 × 5

Therefore, ₹ 141.25 is the cost of 5 litres milk.

C Cost of 1 brick of ice-cream = ₹ 75.28

Cost of 3 brick of ice-cream = ₹ 75.28 × 3

$$\begin{array}{r}
 \text{₹ P} \\
 28 \quad . \quad 25 \\
 \times \quad 5 \\
 \hline
 141 \quad 25
 \end{array}$$

$$\begin{array}{r}
 \text{₹ P} \\
 75 \quad . \quad 28 \\
 \times \quad 3 \\
 \hline
 225 \quad 84
 \end{array}$$

Therefore, ₹ 225.84 is the cost of 3 bricks of ice-cream.

Practice Time 11.5

1. Amount with Lakshmi = ₹ 38.25

Money given to Lakshmi by her Mother = ₹ 7.50

Total amount with Lakshmi = ₹ 38.25 + ₹ 7.50

$$\begin{array}{r} \text{₹} \quad \text{P} \\ 38 \quad 25 \\ + 7 \quad 50 \\ \hline 45 \quad 75 \end{array}$$

Therefore, ₹ 45.75 is the total amount with Lakshmi.

2. Money spent on Atlas = ₹ 27

Money spent on Geometry box = ₹ 12.50

Money spent on notebook = ₹ 12.50

Total money spent = ₹ 27 + ₹ 12.50 + ₹ 12.50

$$\begin{array}{r} \text{₹} \quad \text{P} \\ 27 \quad 00 \\ 12 \quad 50 \\ + 12 \quad 50 \\ \hline 52 \quad 00 \end{array}$$

Therefore, ₹ 52 is the total money spent.

3. Amount with me = ₹ 95.40

Amount needed to make it ₹ 100 = ₹ 100 – ₹ 95.40

$$\begin{array}{r} \text{₹} \quad \text{P} \\ 100 \quad 00 \\ - 95 \quad 40 \\ \hline 04 \quad 60 \end{array}$$

Therefore, 4.60 is needed to make ₹ 100.

4. Money spent on book = ₹ 22.75

Money spent on electric press = ₹ 23.95

Total money spent = ₹ 22.75 + ₹ 23.95

Money given to shopkeeper = ₹ 50

$$\begin{array}{r} \text{₹} \quad \text{P} \\ 22 \quad 75 \\ + 23 \quad 95 \\ \hline 46 \quad 70 \end{array}$$

Money returned by Shopkeeper = ₹ 50 – 46.70

$$\begin{array}{r} \text{₹} \quad \text{P} \\ 50 \quad 00 \\ -46 \quad 70 \\ \hline 3 \quad 30 \end{array}$$

Therefore, Shopkeeper returned ₹ 3.30

Chapter - Check-up Do it yourself

CHAPTER - 12

Practice Time 12

- A**
- 2 Children
 - 8 children
 - Brown, 10 children
 - Orange, Green, 16 children
 - 38 Children
- B**
- 44 students
 - Art
 - Karate
 - Music, Dance
 - 10 Students

C Favourite Story books

Jungle Book     

Harry Potter       

Secret Seven  

Famous Five   

Each  represents one book

D Apples	Numbers	Tally Marks
	2	II
	5	NN
	3	III
	7	NN II
	6	NN I

Chapter Check-up - Do it yourself.

Maths Link (TM)

CLASS - IV

CHAPTER - 1

Practice Time - 1.1

- A** 1. 3247 2. 7050 3. 21318 4. 41050
5. 135042 6. 940002
- B** 1. c 2. a 3. e 4. b
5. d
- C** 1. 61986 = Sixty one thousand nine hundred eighty six.
2. 357006 = Three lakh fifty seven thousand six.
3. 134395 = One lakh thrity four thousand three hundred ninety five.
4. 681978 = Six lakh eighty one thousand nine hundred seventy eight.
- D** 1. 138900 2. 35891 3. 70592 4. 8,08,058
5. 21005
- E** 1. 69507 2. 85426 3. 40075 4. 980021
- F** 1. $42086 = 40000 + 2000 + 80 + 6$
2. $20880 = 20000 + 800 + 80$
3. $632503 = 600000 + 30000 + 2000 + 500 + 3$
4. $357006 = 300000 + 50000 + 7000 + 6$
- G** 1. $3 \rightarrow 30$ 2. $3 \rightarrow 30000$
3. $3 \rightarrow 300000$ 4. $4 \rightarrow 400$
5. $1 \rightarrow 100$ 6. $7 \rightarrow 700$
7. 4000 8. 4000
- H** 1. 9530; 9540; 9550; 9560
2. 34780; 34790; 34800
- I** 1. 7580, 7680, 7780, 7880
2. 32828, 32928, 33028, 33128

- J** 1. 8385, 9385, 10385, 11385
 2. 34018, 35018, 36018, 37018
- K** 1. 49536, 59536, 69536, 79536
 2. 38632, 48632, 58632, 68632
- L** 1. 9461, 28478

Practice Time 1.2

- A** 1. 6099 2. 4414 3. 5505 4. 5294
- B** 1. 42133 2. 7505 3. 84731 4. 32189
- C** 1. 86139, 86319, 86931, 89631
 2. 68139, 68391, 86319, 98631
 3. 89463, 94846, 98346, 248396
- D** 1. 4693, 4639, 4396, 4369
 2. 820913, 510482, 98436, 46931
 3. 110184, 98634, 98130, 64931

Practice Time 1.3

- A** 1. 30 2. 500 3. 250 4. 90
 5. 980 6. 90
- B** 1. 1100 2. 7300 3. 57700 4. 5100
 5. 1300 6. 400
- C** 1. 8000 2. 3000 3. 1000 4. 68000
 5. 8000 6. 26000
- D** 1. 90 2. ₹ 4000 3. 290 4. 3000

Practice Time 1.4

- A** 1. 7 2. 47 3. 30 4. 35
 5. 39 6. 22
- B** 1. VII 2. XXV 3. XXXII 4. XII
 5. LXVII 6. IX 7. XXII 8. XLVI
 9. LXXIV
- C** LI, LII, LIII, LIV, LV, LVI, LVII, LVIII, LIX, LX, LXI, LXII, LXIII, LXIV, LXV, LXVI, LXVII, LXVIII, LXIX, LXX, LXXI, LXXII, LXXIII, LXXIV, LXXV, LXXVI, LXXVII, LXXVIII, LXXIX, LXXX, LXXXI, LXXXII,

LXXXIII, LXXXIV, LXXXV, LXXXVI, LXXXVII, LXXXVIII, LXXXIX, XC, XCI, XCII, XCIII, XCIV, XCV, XCVI, XCVII, XCVIII, CVIX, C

- D**
1. XI, XIII, XIV, XV, XXIV
 2. IX, X, XII, XL, L
 3. II, IX, XVI, XXII, XXIII
 4. I, XX, XXVI, XXIX
- E**
1. XXIX, XXVIII, XX, XIV, IX
 2. XXX, XVII, XV, X, IV
 3. C, XXVI, XXI, XIX, IV
 4. L, IX, VIII, VII, III

CHAPTER - 2

Practice Time 2.1

- A**
1.
$$\begin{array}{r} 2\ 6\ 1\ 2\ 5 \\ +\ 2\ 3\ 1\ 8\ 7 \\ \hline 4\ 9\ 3\ 1\ 2 \end{array}$$
 2.
$$\begin{array}{r} 1\ 3\ 9\ 2\ 4 \\ +\ 2\ 6\ 5\ 1\ 0 \\ \hline 4\ 0\ 4\ 3\ 4 \end{array}$$
 3.
$$\begin{array}{r} 3\ 5\ 8\ 1\ 6\ 0 \\ +\ 1\ 5\ 9\ 1\ 2\ 4 \\ \hline 5\ 1\ 7\ 2\ 8\ 4 \end{array}$$
 4.
$$\begin{array}{r} 1\ 2\ 4\ 1\ 6\ 3 \\ +\ 3\ 2\ 5\ 7\ 1\ 5 \\ \hline 4\ 4\ 9\ 8\ 7\ 8 \end{array}$$
 5.
$$\begin{array}{r} 3\ 1\ 4\ 5\ 6\ 3 \\ +\ 1\ 4\ 2\ 2\ 1\ 3 \\ \hline 4\ 5\ 6\ 7\ 7\ 6 \end{array}$$
 6.
$$\begin{array}{r} 1\ 2\ 5\ 6\ 1 \\ +\ 2\ 3\ 4\ 2\ 5 \\ \hline 3\ 5\ 9\ 8\ 6 \end{array}$$
- B**
1.
$$\begin{array}{r} 4\ 0\ 5\ 9\ 3 \\ 3\ 9\ 5\ 7 \\ +\ \quad\quad 8\ 4 \\ \hline 4\ 4\ 6\ 3\ 4 \end{array}$$
 2.
$$\begin{array}{r} 3\ 8\ 4\ 6 \\ 1\ 9\ 5\ 2 \\ +\ 3\ 8\ 7\ 6 \\ \hline 9\ 6\ 7\ 4 \end{array}$$
 3.
$$\begin{array}{r} 1\ 9\ 4\ 3\ 5 \\ 2\ 8\ 6\ 4 \\ +\ 7\ 3\ 6 \\ \hline 2\ 3\ 0\ 3\ 5 \end{array}$$
 4.
$$\begin{array}{r} 2\ 7\ 5\ 4 \\ +\ 3\ 0\ 9\ 7 \\ \hline 5\ 8\ 5\ 1 \end{array}$$

$$\begin{array}{r} \text{C } 1. \quad 8 \ 6 \ 7 \ 3 \ 1 \ 2 \\ \quad \quad 5 \ 7 \ 0 \ 8 \ 9 \\ \quad \quad + 4 \ 8 \ 7 \ 3 \\ \hline \quad \quad 9 \ 2 \ 9 \ 2 \ 7 \ 4 \end{array}$$

$$\begin{array}{r} 2. \quad \quad 5 \ 5 \ 1 \ 0 \ 4 \\ \quad \quad + 1 \ 0 \ 3 \ 1 \\ \hline \quad \quad 5 \ 6 \ 1 \ 3 \ 5 \end{array}$$

$$\begin{array}{r} 3. \quad \quad 5 \ 6 \ 2 \ 7 \ 8 \\ \quad \quad 4 \ 2 \ 5 \ 6 \\ \quad \quad + 9 \ 7 \ 8 \\ \hline \quad \quad 6 \ 1 \ 5 \ 1 \ 2 \end{array}$$

$$\begin{array}{r} 4. \quad \quad 2 \ 8 \ 7 \ 9 \ 4 \ 3 \\ \quad \quad + 4 \ 1 \ 8 \ 5 \ 7 \ 6 \\ \hline \quad \quad 7 \ 0 \ 6 \ 5 \ 1 \ 9 \end{array}$$

$$\begin{array}{r} 5. \quad \quad 1 \ 5 \ 9 \ 2 \ 7 \ 0 \\ \quad \quad + 3 \ 9 \ 3 \ 4 \ 9 \ 0 \\ \hline \quad \quad 5 \ 5 \ 2 \ 7 \ 6 \ 0 \end{array}$$

$$\begin{array}{r} 6. \quad \quad 2 \ 8 \ 5 \ 6 \ 7 \\ \quad \quad + 9 \ 8 \ 7 \ 0 \ 6 \\ \hline \quad \quad 1 \ 2 \ 7 \ 2 \ 7 \ 3 \end{array}$$

- D**
- | | |
|-------------------------|------------|
| 1. $87562 + 24312$ | $= 111874$ |
| 2. $8 + 88 + 888 + 888$ | $= 9872$ |
| 3. $7165 + 8369 + 22$ | $= 15556$ |
| 4. $45630 + 156 + 9841$ | $= 55627$ |
| 5. $90324 + 13927$ | $= 104251$ |
| 6. $76832 + 89724$ | $= 166556$ |

Practice Time 2.2

	Add	Rounding off num.	Estimated	Actual
A. 2.	$8135 + 1062$	$8000 + 1000$	9000	9197
3.	$6321 + 2847$	$6000 + 3000$	9000	9168
4.	$3035 + 1885$	$3000 + 2000$	5000	4920
5.	$4391 + 2585$	$4000 + 3000$	7000	6976
6.	$6188 + 1937$	$6000 + 2000$	8000	8125
7.	$5225 + 3919$	$5000 + 4000$	9000	9144
8.	$7815 + 1616$	$8000 + 2000$	10,000	9431
9.	$3914 + 2565$	$4000 + 3000$	7000	6479
10.	$3485 + 1545$	$3000 + 2000$	5000	5030
11.	$6575 + 2465$	$7000 + 2000$	9000	9040
12.	$1563 + 5584$	$2000 + 6000$	8000	7147

B 1.
$$\begin{array}{r} 2\ 3\ 9\ 7 \\ +\ 6\ 5\ 8\ 6 \\ \hline 8\ 9\ 8\ 3 \end{array}$$
 Nearest tens = 8980

2.
$$\begin{array}{r} 5\ 2\ 1\ 7 \\ +\ 1\ 2\ 3\ 5 \\ \hline 6\ 4\ 5\ 2 \end{array}$$
 Nearest tens = 6450

3.
$$\begin{array}{r} 3\ 6\ 1\ 2 \\ 4\ 1\ 5\ 3 \\ +\ 7\ 8\ 4\ 9 \\ \hline 1\ 5\ 6\ 1\ 4 \end{array}$$
 Nearest tens = 15610

4.
$$\begin{array}{r} 2\ 5\ 9 \\ 6\ 6\ 2 \\ +\ 8\ 2\ 3 \\ \hline 1\ 7\ 4\ 4 \end{array}$$
 Nearest tens = 1740

C 1.
$$\begin{array}{r} 2\ 0\ 0\ 7\ 3 \\ +\ 1\ 9\ 1\ 7\ 9 \\ \hline 3\ 9\ 2\ 5\ 2 \end{array}$$
 Nearest hundreds = 39300

2.
$$\begin{array}{r} 3\ 7\ 1\ 9\ 7 \\ +\ 8\ 7\ 1\ 2 \\ \hline 4\ 5\ 9\ 0\ 9 \end{array}$$
 Nearest hundreds = 45900

3.
$$\begin{array}{r} 1\ 2\ 3\ 4\ 5 \\ +\ 6\ 7\ 1\ 7\ 2 \\ \hline 7\ 9\ 5\ 1\ 7 \end{array}$$
 Nearest hundreds = 79500

4.
$$\begin{array}{r} 9\ 3\ 4\ 3\ 8 \\ +\ 1\ 1\ 7\ 0 \\ \hline 9\ 4\ 6\ 0\ 8 \end{array}$$
 Nearest hundreds = 94600

D 1.
$$\begin{array}{r} 3\ 7\ 3\ 7\ 3 \\ 2\ 6\ 4\ 6\ 6 \\ +\ 2\ 2\ 8\ 2\ 9 \\ \hline 8\ 6\ 6\ 6\ 8 \end{array}$$
 Nearest thousands = 87000

$$\begin{array}{r}
 2. \quad 3 \ 1 \ 7 \ 0 \ 5 \\
 \quad 4 \ 7 \ 8 \ 0 \ 7 \\
 + \quad 1 \ 1 \ 3 \ 9 \ 7 \\
 \hline
 \quad 9 \ 0 \ 9 \ 0 \ 9
 \end{array}$$

Nearest thousands = 90000

$$\begin{array}{r}
 3. \quad 2 \ 3 \ 1 \ 2 \ 1 \\
 \quad 2 \ 1 \ 3 \ 7 \ 1 \\
 + \quad 3 \ 5 \ 7 \ 0 \ 1 \\
 \hline
 \quad 8 \ 0 \ 1 \ 9 \ 3
 \end{array}$$

Nearest thousands = 80000

$$\begin{array}{r}
 4. \quad 4 \ 7 \ 0 \ 8 \ 9 \\
 \quad 1 \ 9 \ 0 \ 3 \ 7 \\
 + \quad 2 \ 1 \ 0 \ 9 \ 8 \\
 \hline
 \quad 8 \ 7 \ 2 \ 2 \ 4
 \end{array}$$

Nearest thousands = 87000

Practice Time 2.3

- A 1. 45932 2. 42073 3. 57893 4. 32967
 5. 47830, 27945 6. 0
- B 1. 16 2. 4

Practice Time 2.4

1. Number of male teachers = 10879
 Number of female teachers = 8729
 Total number of teachers = 10879 + 8729

$$\begin{array}{r}
 1 \ 0 \ 8 \ 7 \ 9 \\
 + \ 8 \ 7 \ 2 \ 9 \\
 \hline
 1 \ 9 \ 6 \ 0 \ 8
 \end{array}$$

Therefore, 19608 are the total number of teachers in the state.

2. Number of English books = 15924
 Number of Hindi books = 9875
 Number of other books in other languages = 28158
 Therefore, 53957 are total books in the library.

$$\begin{array}{r}
 1 \ 5 \ 9 \ 2 \ 4 \\
 \quad 9 \ 8 \ 7 \ 5 \\
 + \ 2 \ 8 \ 1 \ 5 \ 8 \\
 \hline
 5 \ 3 \ 9 \ 5 \ 7
 \end{array}$$

3. Number of electric bulbs produced in one year = 238375
 Number of tube lights produced in one year = 238375 + 149500 = 387875

Total production of the year = 238375 + 387875

$$\begin{array}{r} 2\ 3\ 8\ 3\ 7\ 5 \\ +\ 3\ 8\ 7\ 8\ 7\ 5 \\ \hline 6\ 2\ 6\ 2\ 5\ 0 \end{array}$$

Therefore, 626250 was the total production of the year

4. Number of men spectators = 36975
 Number of women spectators = 24876
 Total number of spectators in the stadium = 36975 + 24876

$$\begin{array}{r} 3\ 6\ 9\ 7\ 5 \\ +\ 2\ 4\ 8\ 7\ 6 \\ \hline 6\ 1\ 8\ 5\ 1 \end{array}$$

Therefore, 61851 spectators were in the stadium.

5. Sum.

$$\begin{array}{r} 3\ 0\ 9\ 5\ 8\ 7 \\ +\ 6\ 9\ 5\ 6\ 8\ 4 \\ \hline 1\ 0\ 0\ 5\ 2\ 7\ 1 \end{array}$$

6. Number of bicycles produced = 15741
 Number of tricycles produced = 63254
 Total number of cycles produced = 15741 + 63254

$$\begin{array}{r} 1\ 5\ 7\ 4\ 1 \\ +\ 6\ 3\ 2\ 5\ 4 \\ \hline 7\ 8\ 9\ 9\ 5 \end{array}$$

Therefore, 78995 cycles were produced.

CHAPTER - 3

Practice Time 3.1

A 1.
$$\begin{array}{r} 7\ 8\ 3\ 2\ 1\ 7 \\ -\ 6\ 8\ 2\ 1\ 0\ 6 \\ \hline 1\ 0\ 1\ 1\ 1\ 1 \end{array}$$

2.
$$\begin{array}{r} 5\ 6\ 8\ 1\ 2 \\ -\ 2\ 7\ 8\ 4\ 8 \\ \hline 2\ 8\ 9\ 6\ 4 \end{array}$$

$$\begin{array}{r} 3. \quad \begin{array}{r} 890532 \\ - 140312 \\ \hline 750220 \end{array} \end{array}$$

$$\begin{array}{r} 4. \quad \begin{array}{r} 830945 \\ - 320531 \\ \hline 510414 \end{array} \end{array}$$

$$\begin{array}{r} 5. \quad \begin{array}{r} 984076 \\ - 873065 \\ \hline 111011 \end{array} \end{array}$$

$$\begin{array}{r} 6. \quad \begin{array}{r} 39456 \\ - 15324 \\ \hline 24132 \end{array} \end{array}$$

$$\begin{array}{r} 7. \quad \begin{array}{r} 56001 \\ - 38396 \\ \hline 17605 \end{array} \end{array}$$

$$\begin{array}{r} 8. \quad \begin{array}{r} 876054 \\ - 162597 \\ \hline 713457 \end{array} \end{array}$$

$$\begin{array}{r} 9. \quad \begin{array}{r} 769827 \\ - 297938 \\ \hline 471889 \end{array} \end{array}$$

$$\begin{array}{r} 10. \quad \begin{array}{r} 50450 \\ - 14865 \\ \hline 35585 \end{array} \end{array}$$

$$\begin{array}{r} 11. \quad \begin{array}{r} 60304 \\ - 49847 \\ \hline 10457 \end{array} \end{array}$$

$$\begin{array}{r} 12. \quad \begin{array}{r} 76549 \\ - 30987 \\ \hline 45562 \end{array} \end{array}$$

$$\begin{array}{r} \text{B } 1. \quad \begin{array}{r} 40000 \\ - 9 \\ \hline 39991 \end{array} \end{array}$$

$$\begin{array}{r} 2. \quad \begin{array}{r} 2877 \\ - 2500 \\ \hline 377 \end{array} \end{array}$$

$$\begin{array}{r} 3. \quad \begin{array}{r} 2560 \\ - 1530 \\ \hline 1030 \end{array} \end{array}$$

$$\begin{array}{r} 4. \quad \begin{array}{r} 7106 \\ - 4083 \\ \hline 3023 \end{array} \end{array}$$

$$\begin{array}{r} 5. \quad \begin{array}{r} 900 \\ - 200 \\ \hline 700 \end{array} \end{array}$$

$$\begin{array}{r} 6. \quad \begin{array}{r} 9000 \\ - 4083 \\ \hline 4917 \end{array} \end{array}$$

$$\begin{array}{r} 7. \quad \begin{array}{r} 1700000 \\ - 25060 \\ \hline 1674940 \end{array} \end{array}$$

$$\begin{array}{r} 8. \quad \begin{array}{r} 5000 \\ - 260 \\ \hline 4740 \end{array} \end{array}$$

Practice Time 3.2

$$\begin{array}{r} \text{A } 1. \quad 3 \ 9 \ 5 \ 9 \ 0 \\ - 2 \ 0 \ 6 \ 1 \ 2 \\ \hline 1 \ 8 \ 9 \ 7 \ 8 \end{array}$$

$$\begin{array}{r} 2. \quad 5 \ 0 \ 2 \ 3 \ 9 \ 5 \\ - 1 \ 4 \ 9 \ 1 \ 4 \ 6 \\ \hline 3 \ 5 \ 3 \ 2 \ 4 \ 9 \end{array}$$

$$\begin{array}{r} 3. \quad 6 \ 8 \ 8 \ 7 \ 8 \\ - 2 \ 7 \ 7 \ 5 \ 6 \\ \hline 4 \ 1 \ 1 \ 2 \ 2 \end{array}$$

$$\begin{array}{r} 4. \quad 7 \ 4 \ 6 \ 3 \ 8 \ 9 \\ - 9 \ 4 \ 2 \ 4 \ 7 \\ \hline 6 \ 5 \ 2 \ 1 \ 4 \ 2 \end{array}$$

$$\begin{array}{r} \text{B } 1. \quad 3 \ 6 \ 7 \ 3 \ 9 \\ - 1 \ 2 \ 8 \ 4 \ 9 \\ \hline 2 \ 3 \ 8 \ 9 \ 0 \end{array}$$

$$\begin{array}{r} 2. \quad 2 \ 5 \ 6 \ 7 \ 0 \ 4 \\ - 1 \ 0 \ 3 \ 0 \ 2 \ 8 \\ \hline 1 \ 5 \ 3 \ 6 \ 7 \ 6 \end{array}$$

$$\begin{array}{r} 3. \quad 2 \ 0 \ 0 \ 0 \ 3 \ 1 \\ - 1 \ 8 \ 9 \ 7 \ 6 \ 4 \\ \hline 0 \ 1 \ 0 \ 2 \ 6 \ 7 \end{array}$$

$$\begin{array}{r} 4. \quad 5 \ 0 \ 0 \ 0 \ 0 \ 0 \\ - 3 \ 6 \ 0 \ 8 \ 2 \ 4 \\ \hline 1 \ 3 \ 9 \ 1 \ 7 \ 6 \end{array}$$

$$\begin{array}{r} 1 \ 8 \ 9 \ 7 \ 8 \\ + 2 \ 0 \ 6 \ 1 \ 2 \\ \hline 3 \ 9 \ 5 \ 9 \ 0 \end{array}$$

$$\begin{array}{r} 3 \ 5 \ 3 \ 2 \ 4 \ 9 \\ + 1 \ 4 \ 9 \ 1 \ 4 \ 6 \\ \hline 5 \ 0 \ 2 \ 3 \ 8 \ 5 \end{array}$$

$$\begin{array}{r} 4 \ 1 \ 1 \ 2 \ 2 \\ + 2 \ 7 \ 7 \ 5 \ 6 \\ \hline 6 \ 8 \ 8 \ 7 \ 8 \end{array}$$

$$\begin{array}{r} 6 \ 5 \ 2 \ 1 \ 4 \ 2 \\ + 9 \ 4 \ 2 \ 4 \ 7 \\ \hline 7 \ 4 \ 6 \ 3 \ 8 \ 9 \end{array}$$

$$\begin{array}{r} 2 \ 3 \ 8 \ 9 \ 0 \\ + 1 \ 2 \ 8 \ 4 \ 9 \\ \hline 3 \ 6 \ 7 \ 3 \ 9 \end{array}$$

$$\begin{array}{r} 1 \ 5 \ 3 \ 6 \ 7 \ 6 \\ + 1 \ 0 \ 3 \ 0 \ 2 \ 8 \\ \hline 2 \ 5 \ 6 \ 7 \ 0 \ 4 \end{array}$$

$$\begin{array}{r} 1 \ 0 \ 2 \ 6 \ 7 \\ + 1 \ 8 \ 9 \ 7 \ 6 \ 4 \\ \hline 2 \ 0 \ 0 \ 0 \ 3 \ 1 \end{array}$$

$$\begin{array}{r} 1 \ 3 \ 9 \ 1 \ 7 \ 6 \\ + 3 \ 6 \ 0 \ 8 \ 2 \ 4 \\ \hline 5 \ 0 \ 0 \ 0 \ 0 \ 0 \end{array}$$

Practice Time 3.3

$$\begin{array}{r} \text{A } 1. \quad 6 \ 0 \ 0 \ 0 \\ - 4 \ 8 \ 1 \ 6 \\ \hline 1 \ 1 \ 8 \ 4 \end{array}$$

$$\begin{array}{r} 1 \ 1 \ 8 \ 4 \\ + 3 \ 0 \ 4 \ 2 \\ \hline 4 \ 2 \ 2 \ 6 \end{array}$$

$$\begin{array}{r} 2. \quad \quad 6 \ 3 \ 7 \\ \quad \quad + \ 3 \ 1 \ 5 \\ \hline \quad \quad 9 \ 5 \ 2 \end{array}$$

$$\begin{array}{r} \quad \quad 9 \ 5 \ 2 \\ \quad \quad - \ 4 \ 5 \ 2 \\ \hline \quad \quad 5 \ 0 \ 0 \end{array}$$

$$\begin{array}{r} 3. \quad \quad 8 \ 3 \ 7 \\ \quad \quad + \ 3 \ 0 \ 4 \ 3 \\ \hline \quad \quad 3 \ 8 \ 8 \ 0 \end{array}$$

$$\begin{array}{r} \quad \quad 3 \ 8 \ 8 \ 0 \\ \quad \quad - \ 4 \ 1 \ 3 \\ \hline \quad \quad 3 \ 4 \ 6 \ 7 \end{array}$$

$$\begin{array}{r} 4. \quad \quad 2 \ 7 \ 6 \ 1 \ 0 \\ \quad \quad + \ 3 \ 0 \ 8 \ 4 \ 5 \\ \hline \quad \quad 5 \ 8 \ 4 \ 5 \ 5 \end{array}$$

$$\begin{array}{r} \quad \quad 5 \ 8 \ 4 \ 5 \ 5 \\ \quad \quad - \ 9 \ 9 \ 9 \ 8 \\ \hline \quad \quad 4 \ 8 \ 4 \ 5 \ 7 \end{array}$$

$$\begin{array}{r} 5. \quad \quad 1 \ 0 \ 0 \ 3 \\ \quad \quad - \ 4 \ 1 \ 7 \\ \hline \quad \quad 5 \ 8 \ 6 \end{array}$$

$$\begin{array}{r} \quad \quad 5 \ 8 \ 6 \\ \quad \quad - \ 2 \ 8 \ 4 \\ \hline \quad \quad 3 \ 0 \ 2 \end{array}$$

$$\begin{array}{r} 6. \quad \quad 8 \ 8 \ 4 \ 7 \\ \quad \quad - \ 3 \ 7 \ 1 \ 6 \\ \hline \quad \quad 5 \ 1 \ 3 \ 1 \end{array}$$

$$\begin{array}{r} \quad \quad 5 \ 1 \ 3 \ 1 \\ \quad \quad - \ 2 \ 1 \ 4 \ 9 \\ \hline \quad \quad 2 \ 9 \ 8 \ 2 \end{array}$$

$$\begin{array}{r} 7. \quad \quad 3 \ 4 \ 1 \ 5 \\ \quad \quad + \ 3 \ 6 \ 1 \ 4 \\ \hline \quad \quad 7 \ 0 \ 2 \ 9 \end{array}$$

$$\begin{array}{r} \quad \quad 7 \ 0 \ 2 \ 9 \\ \quad \quad - \ 3 \ 7 \ 9 \ 2 \\ \hline \quad \quad 3 \ 2 \ 3 \ 7 \end{array}$$

$$\begin{array}{r} 8. \quad \quad 9 \ 2 \ 2 \ 9 \ 4 \\ \quad \quad + \ 1 \ 8 \ 2 \ 8 \\ \hline \quad \quad 9 \ 4 \ 1 \ 2 \ 2 \end{array}$$

$$\begin{array}{r} \quad \quad 9 \ 4 \ 1 \ 2 \ 2 \\ \quad \quad - \ 6 \ 3 \ 7 \ 4 \\ \hline \quad \quad 8 \ 7 \ 7 \ 4 \ 8 \end{array}$$

$$\begin{array}{r} \quad \quad 8 \ 7 \ 7 \ 4 \ 8 \\ \quad \quad - \ 2 \ 1 \ 9 \ 0 \\ \hline \quad \quad 8 \ 5 \ 5 \ 5 \ 8 \end{array}$$

$$\begin{array}{r} 9. \quad \quad 8 \ 4 \ 7 \ 6 \ 0 \\ \quad \quad - \ 4 \ 1 \ 9 \\ \hline \quad \quad 8 \ 4 \ 3 \ 4 \ 1 \end{array}$$

$$\begin{array}{r} \quad \quad 8 \ 4 \ 3 \ 4 \ 1 \\ \quad \quad - \ 3 \ 0 \ 1 \ 4 \ 6 \\ \hline \quad \quad 5 \ 4 \ 1 \ 9 \ 5 \end{array}$$

$$\begin{array}{r} \quad \quad 5 \ 4 \ 1 \ 9 \ 5 \\ \quad \quad - \ 4 \ 1 \ 9 \ 5 \\ \hline \quad \quad 5 \ 0 \ 0 \ 0 \ 0 \end{array}$$

$$\begin{array}{r} 10. \quad \quad 8 \ 4 \ 7 \ 9 \ 7 \\ \quad \quad - \ 9 \ 3 \ 5 \ 0 \\ \hline \quad \quad 7 \ 5 \ 4 \ 4 \ 7 \end{array}$$

$$\begin{array}{r} \quad \quad 7 \ 5 \ 4 \ 4 \ 7 \\ \quad \quad \quad 9 \ 3 \ 1 \ 0 \\ \quad \quad + \quad 3 \ 4 \ 7 \\ \hline \quad \quad 8 \ 5 \ 1 \ 0 \ 4 \end{array}$$

$$\begin{array}{r}
 11. \quad \begin{array}{r} 2\ 7\ 6\ 5\ 4 \\ -\ 9\ 1\ 4 \\ \hline 2\ 6\ 7\ 4\ 0 \end{array} \quad \begin{array}{r} 2\ 6\ 7\ 4\ 0 \\ -\ 1\ 0\ 0\ 3 \\ \hline 2\ 5\ 7\ 3\ 7 \end{array} \quad \begin{array}{r} 2\ 5\ 7\ 3\ 7 \\ -\ 4\ 7\ 9\ 6 \\ \hline 2\ 0\ 9\ 4\ 1 \end{array}
 \end{array}$$

$$12. \quad \begin{array}{r} 6\ 3\ 7 \\ -\ 4\ 5\ 2 \\ \hline 1\ 8\ 5 \end{array} \quad + \begin{array}{r} 1\ 8\ 5 \\ +\ 3\ 1\ 5 \\ \hline 5\ 0\ 0 \end{array}$$

$$13. \quad \begin{array}{r} 5\ 5\ 4\ 2\ 3 \\ -\ 2\ 7\ 0\ 3\ 5 \\ \hline 2\ 8\ 3\ 8\ 8 \end{array} \quad + \begin{array}{r} 2\ 8\ 3\ 8\ 8 \\ +\ 1\ 9\ 0\ 8\ 8 \\ \hline 4\ 7\ 4\ 7\ 6 \end{array} \quad - \begin{array}{r} 4\ 7\ 4\ 7\ 6 \\ -\ 2\ 3\ 4\ 5\ 5 \\ \hline 2\ 4\ 0\ 2\ 1 \end{array}$$

$$14. \quad \begin{array}{r} 7\ 5\ 3\ 0\ 2 \\ -\ 2\ 3\ 4\ 7 \\ \hline 7\ 2\ 9\ 5\ 5 \end{array} \quad \begin{array}{r} 7\ 2\ 9\ 5\ 5 \\ -\ 5\ 2\ 3\ 5 \\ \hline 6\ 7\ 7\ 2\ 0 \end{array} \quad \begin{array}{r} 6\ 7\ 7\ 2\ 0 \\ +\ 4\ 0\ 0 \\ \hline 6\ 8\ 1\ 2\ 0 \end{array}$$

B Do it yourself.

Practice Time 3.4

A 1. $2\ 9\ 0\ 6$ Estimated difference = 1450

$$\begin{array}{r} 2\ 9\ 0\ 6 \\ -\ 1\ 4\ 5\ 8 \\ \hline 1\ 4\ 4\ 8 \end{array}$$

2. $5\ 8\ 6\ 9$ Estimated = 4610

$$\begin{array}{r} 5\ 8\ 6\ 9 \\ -\ 1\ 2\ 6\ 4 \\ \hline 4\ 6\ 0\ 5 \end{array}$$

3. $9\ 4\ 3\ 8$ Estimated = 7520

$$\begin{array}{r} 9\ 4\ 3\ 8 \\ -\ 1\ 9\ 2\ 3 \\ \hline 7\ 5\ 1\ 5 \end{array}$$

4. $9\ 3\ 8\ 4$ Estimated = 6700

$$\begin{array}{r} 9\ 3\ 8\ 4 \\ -\ 2\ 6\ 7\ 9 \\ \hline 6\ 7\ 0\ 5 \end{array}$$

B 1. $6\ 1\ 5\ 8$ Estimated = 1800

$$\begin{array}{r} 6\ 1\ 5\ 8 \\ -\ 4\ 4\ 2\ 9 \\ \hline 1\ 7\ 2\ 9 \end{array}$$

$$\begin{array}{r} 3\ 0\ 0\ 1 \\ 2.\quad -\ 2\ 2\ 7\ 3 \\ \hline 0\ 7\ 2\ 8 \end{array} \quad \text{Estimated} = \quad 700$$

$$\begin{array}{r} 6\ 0\ 0\ 0 \\ 3.\quad -\ 4\ 4\ 5\ 8 \\ \hline 1\ 5\ 4\ 2 \end{array} \quad \text{Estimated} = \quad 1500$$

$$\begin{array}{r} 8\ 5\ 3\ 1 \\ 4.\quad -\ 1\ 7\ 9\ 4 \\ \hline 6\ 7\ 3\ 7 \end{array} \quad \text{Estimated} = \quad 6700$$

$$\text{C } 1.\quad \begin{array}{r} 2\ 7\ 9\ 2\ 1 \\ -\ 1\ 4\ 1\ 7\ 9 \\ \hline 1\ 3\ 7\ 4\ 2 \end{array} \quad \text{Estimated} = \quad 14000$$

$$2.\quad \begin{array}{r} 6\ 6\ 5\ 5\ 7 \\ -\ 1\ 3\ 1\ 2\ 9 \\ \hline 5\ 3\ 4\ 2\ 8 \end{array} \quad \text{Estimated} = \quad 54000$$

$$3.\quad \begin{array}{r} 4\ 7\ 6\ 5\ 3 \\ -\ 7\ 5\ 4\ 8 \\ \hline 4\ 0\ 1\ 0\ 5 \end{array} \quad \text{Estimated} = \quad 40000$$

Practice Time 3.5

1. Other number = $903012 - 360825 = 542187$

2. No. of video games produced in 1999 = 95970

Target production = 100000

No. of video games produced less = $10000 - 95970 = 4030$

3. Largest 5-digit number = 99999

Smallest 6 - digit number = 100000

= $100000 - 99999 = 1$

4. Subtraction

$$\begin{array}{r} 1\ 2\ 3\ 0\ 1\ 9\ 0 \\ -\ 5\ 5\ 0\ 3\ 7\ 0 \\ \hline 6\ 7\ 9\ 8\ 2\ 0 \end{array}$$

The boy was right.

5. No. of men = 570371

No. of women = 369127

Total population = 1507160

No. of children = 1507160 - (570371 + 369127)

$$\begin{array}{r} \text{Step 1} \quad 3 \ 6 \ 9 \ 1 \ 2 \ 7 \\ + \quad 5 \ 7 \ 0 \ 3 \ 7 \ 1 \\ \hline 9 \ 3 \ 9 \ 4 \ 9 \ 8 \end{array}$$

$$\begin{array}{r} \text{Step 2} \quad 1 \ 5 \ 0 \ 7 \ 1 \ 6 \ 0 \\ - \quad 9 \ 3 \ 9 \ 4 \ 9 \ 8 \\ \hline 5 \ 6 \ 7 \ 6 \ 6 \ 2 \end{array}$$

No of children are 567662.

$$\begin{array}{r} \text{6. Step 1} \quad 3 \ 3 \ 4 \ 5 \ 2 \\ + \quad 4 \ 6 \ 7 \ 7 \ 1 \\ \hline 8 \ 0 \ 2 \ 2 \ 3 \end{array}$$

$$\begin{array}{r} \text{Step 2} \quad 9 \ 2 \ 7 \ 5 \ 2 \ 1 \\ - \quad 8 \ 0 \ 2 \ 2 \ 3 \\ \hline 8 \ 4 \ 7 \ 2 \ 9 \ 8 \end{array}$$

Ans. = 847298

$$\begin{array}{r} \text{7. Step 1} \quad 1 \ 9 \ 0 \ 6 \ 7 \\ + \quad 5 \ 1 \ 2 \ 3 \ 7 \\ \hline 7 \ 0 \ 3 \ 0 \ 4 \end{array}$$

$$\begin{array}{r} \text{Step 2} \quad 1 \ 0 \ 0 \ 0 \ 0 \ 0 \\ - \quad 7 \ 0 \ 3 \ 0 \ 4 \\ \hline 2 \ 9 \ 6 \ 9 \ 6 \end{array}$$

Ans. = 29696

$$\begin{array}{r} \text{8. Step 1} \quad 4 \ 5 \ 6 \ 3 \ 7 \\ - \quad 2 \ 2 \ 4 \ 2 \ 7 \\ \hline 2 \ 3 \ 2 \ 1 \ 0 \end{array}$$

$$\begin{array}{r} \text{Step 2} \quad 6 \ 6 \ 6 \ 6 \ 6 \ 7 \\ - \quad 2 \ 3 \ 2 \ 1 \ 0 \\ \hline 6 \ 4 \ 3 \ 4 \ 5 \ 7 \end{array}$$

$$\begin{array}{r} \text{9.} \quad 5 \ 0 \ 0 \ 0 \\ - \quad 2 \ 9 \ 1 \ 5 \\ \hline 2 \ 0 \ 8 \ 5 \end{array}$$

10. Total amount with Rashmi = ₹ 200000

Amount spent on refrigerator = ₹ 35350

Amount spent on television = ₹ 20700

Amount spent on microwave = ₹ 33470

Amount left with her

$$= 200000 - (35350 + 20700 + 33470)$$

$$= 200000 - 89520 = ₹110480$$

Amount left was ₹110480.

11. Amount spent on tractor = 45850

Loan amount = 38000

Amount paid by farmer = $45850 - 38000 = 7850$

12. Total population of a town = 72500

Number of males = 26180

Number of females = 20000

Number of children

$= 72500 - (26180 + 20000) = 72500 - 46180 = 26320$

Number of children are 26320.

13. Amount of milk produced in a day = 70000 l

Amount supplied to one milk depot = 32502 l

Amount supplied to second milk depot = 22697 l

Total amount of milk left = $70000 - (32502 + 22697)$
 $= 70000 - 55199 = 14801$ l

Amount of milk left is 14801 l.

CHAPTER - 4

Practice Time 4.1

- A**
- $112 \times 5 = (100 + 10 + 2) \times 5 = 500 + 50 + 10 = 560$
 - $314 \times 2 = (300 + 10 + 4) \times 2 = 600 + 20 + 8 = 628$
 - $129 \times 5 = (100 + 20 + 9) \times 5 = 500 + 100 + 45 = 645$
 - $418 \times 7 = (400 + 10 + 8) \times 7 = 2800 + 70 + 56$
 $= 2926$
 - $2314 \times 4 = (2000 + 300 + 10 + 4) \times 4$
 $= 8000 + 1200 + 40 + 16 = 9256$
 - $8942 \times 4 = (8000 + 900 + 40 + 2) \times 4$
 $= 32000 + 3600 + 160 + 8 = 35768$
 - $1437 \times 5 = (1000 + 400 + 30 + 7) \times 5$
 $= 5000 + 2000 + 150 + 35 = 7185$
 - $1346 \times 7 = (1000 + 300 + 40 + 6) \times 7$
 $= 7000 + 2100 + 280 + 42 = 9422$
 - $1058 \times 9 = (1000 + 50 + 8) \times 9$
 $= 9000 + 450 + 72 = 9522$

- B**
1. Yes, Grouping of number
 2. Yes, Grouping of numbers
 3. Yes, Grouping of numbers
 4. Yes, Grouping of numbers

- C**
1. 87×50

$$\text{Round off} = 87 \rightarrow 90 \qquad 50 \rightarrow 50$$

$$90 \times 50 = 4500$$

2. 43×32

$$\text{Round off} = 43 \rightarrow 40 \qquad 32 \rightarrow 30$$

$$40 \times 30 = 1200$$

3. 75×46

$$\text{Round off} = 75 \rightarrow 80 \qquad 46 \rightarrow 50$$

$$80 \times 50 = 4000$$

4. 82×63

$$\text{Round off } 82 \rightarrow 80 \qquad 63 \rightarrow 60$$

$$80 \times 60 = 4800$$

5. 67×46

$$\text{Round off } 67 \rightarrow 70 \qquad 46 \rightarrow 50$$

$$70 \times 50 = 3500$$

6. 77×8

$$\text{Round off } 77 \rightarrow 80 \qquad 8 \rightarrow 8$$

$$80 \times 8 = 640$$

- D**
1. 47×62

$$\text{Rounding off } 47 \rightarrow 50 \qquad 62 \rightarrow 60$$

$$50 \times 60 = 3000$$

2. 35×65

$$\text{Round off } 35 \rightarrow 40 \qquad 65 \rightarrow 60$$

$$40 \times 60 = 2400$$

3. 88×11

$$\text{Round off } 88 \rightarrow 90 \qquad 11 \rightarrow 10$$

$$90 \times 10 = 900$$

4. 56×71

$$\text{Round off } 56 \rightarrow 60$$

$$71 \rightarrow 70$$

$$60 \times 70 = 4200$$

5. 64×46

$$\text{Round off } 64 \rightarrow 70$$

$$46 \rightarrow 40$$

$$70 \times 40 = 2800$$

6. 29×91

$$\text{Round off } 29 \rightarrow 30$$

$$91 \rightarrow 90$$

$$30 \times 90 = 2700$$

E 1. 452×768

$$\text{Round off } 452 \rightarrow 500$$

$$\text{Round of } 768 \rightarrow 800$$

$$500 \times 800 = 400000$$

2. 144×177

$$\text{Round off } 144 \rightarrow 100$$

$$177 \rightarrow 200$$

$$100 \times 200 = 20000$$

3. 432×108

$$\text{Round off } 432 \rightarrow 400$$

$$108 \rightarrow 100$$

$$400 \times 100 = 40000$$

4. 184×164

$$\text{Round off } 184 \rightarrow 200$$

$$164 \rightarrow 200$$

$$200 \times 200 = 40000$$

5. 190×280

$$\text{Round off } 190 \rightarrow 200$$

$$280 \rightarrow 300$$

$$200 \times 300 = 60000$$

6. 512×183

$$\text{Round off } 512 \rightarrow 500$$

$$183 \rightarrow 200$$

$$500 \times 200 = 100000$$

Practice Time 4.2

A 1.	$\begin{array}{r} 1\ 2\ 3\ 4 \\ \times 8 \\ \hline 9\ 8\ 7\ 2 \end{array}$	2.	$\begin{array}{r} 1\ 4\ 4\ 5 \\ \times 6 \\ \hline 8\ 6\ 7\ 0 \end{array}$
3.	$\begin{array}{r} 1\ 0\ 4\ 9 \\ \times 8 \\ \hline 8\ 3\ 9\ 2 \end{array}$	4.	$\begin{array}{r} 6\ 7\ 3\ 9 \\ \times 6 \\ \hline 4\ 0\ 4\ 3\ 4 \end{array}$
5.	$\begin{array}{r} 7\ 4\ 1\ 2 \\ \times 3 \\ \hline 2\ 2\ 2\ 3\ 6 \end{array}$	6.	$\begin{array}{r} 8\ 0\ 7\ 0 \\ \times 7 \\ \hline 5\ 6\ 4\ 9\ 0 \end{array}$
7.	$\begin{array}{r} 7\ 0\ 4\ 0 \\ \times 9 \\ \hline 6\ 3\ 3\ 6\ 0 \end{array}$	8.	$\begin{array}{r} 4\ 4\ 4\ 4 \\ \times 6 \\ \hline 2\ 6\ 6\ 6\ 4 \end{array}$
9.	$\begin{array}{r} 5\ 4\ 6\ 4 \\ \times 5 \\ \hline 2\ 7\ 3\ 2\ 0 \end{array}$	10.	$\begin{array}{r} 7\ 1\ 4\ 2 \\ \times 9 \\ \hline 6\ 4\ 2\ 7\ 8 \end{array}$
11.	$\begin{array}{r} 8\ 0\ 3\ 9 \\ \times 8 \\ \hline 6\ 4\ 3\ 1\ 2 \end{array}$	12.	$\begin{array}{r} 2\ 3\ 4\ 0 \\ \times 6 \\ \hline 1\ 4\ 0\ 4\ 0 \end{array}$

B 1. 93×33
 $= (90 + 3) (30 + 3)$
 $= (90 \times 30) + (90 \times 3) + (3 \times 30) + (3 \times 3)$
 $= 2700 + 270 + 90 + 9 = 3069$

2. 54×75
 $= (50 + 4) (70 + 5)$
 $= (50 \times 70) + (50 \times 5) + (4 \times 70) + (4 \times 5)$
 $= 3500 + 250 + 280 + 20 = 4050$

3. 69×77
 $= (60 + 9) (70 + 7)$
 $= (60 \times 70) + (60 \times 7) + (9 \times 70) + (9 \times 7)$

$$= 4200 + 420 + 630 + 63 = 5313$$

4. 4622×5

$$= (4000 + 600 + 20 + 2) \times 5$$

$$= 4000 \times 5 + 600 \times 5 + 20 \times 5 + 2 \times 5$$

$$= 20000 + 3000 + 100 + 10 = 23110$$

5. 62×32

$$= (60 + 2) (30 + 2)$$

$$= (60 \times 30) + (60 \times 2) + (2 \times 30) + (2 \times 2)$$

$$= 1800 + 120 + 60 + 4 = 1984$$

6. 91×27

$$= (90 + 1) (20 + 7)$$

$$= (90 \times 20) + (90 \times 7) + (20 \times 1) + (7 \times 1)$$

$$= 1800 + 630 + 20 + 7 = 2457$$

7. 45×36

$$= (40 + 5) (30 + 6)$$

$$= (40 \times 30) + (40 \times 6) + (5 \times 30) + (5 \times 6)$$

$$= 1200 + 240 + 150 + 30 = 1620$$

8. 3409×8

$$= (3000 + 400 + 9) \times 8$$

$$= 3000 \times 8 + 400 \times 8 + 9 \times 8$$

$$= 24000 + 3200 + 72 = 27272$$

9. 92×17

$$= (90 + 2) (10 + 7)$$

$$= (90 \times 10) + (90 \times 7) + (2 \times 10) + (2 \times 7)$$

$$= 900 + 630 + 20 + 14 = 1564$$

10. 24×69

$$= (20 + 4) (60 + 9)$$

$$= (20 \times 60) + (20 \times 9) + (4 \times 60) + (4 \times 9)$$

$$= 1200 + 180 + 240 + 36 = 1656$$

11. 52×49

$$= (50 + 2) (40 + 9)$$

$$= (50 \times 40) + (50 \times 9) + (2 \times 40) + (2 \times 9)$$

$$= 2000 + 450 + 80 + 18 = 2548$$

$$12. 3185 \times 5$$

$$= (3000 + 100 + 80 + 5) \times 5$$

$$= (3000 \times 5) + (100 \times 5) + (5 \times 80) + (5 \times 5)$$

$$= 15000 + 500 + 400 + 25 = 15925$$

Practice Time 4.3

$$\begin{array}{r} \text{A } 1. \quad \quad \quad 5 \ 9 \ 3 \ 4 \\ \quad \quad \quad \times 9 \ 6 \\ \hline \quad \quad \quad 3 \ 5 \ 6 \ 0 \ 4 \\ + 5 \ 3 \ 4 \ 0 \ 6 \ 0 \\ \hline \underline{5 \ 6 \ 9 \ 6 \ 6 \ 4} \end{array}$$

$$\begin{array}{r} 2. \quad \quad \quad \quad \quad 8 \ 4 \\ \quad \quad \quad \quad \times 7 \ 4 \\ \hline \quad \quad \quad \quad 3 \ 3 \ 6 \\ + 5 \ 5 \ 8 \ 0 \\ \hline \underline{6 \ 2 \ 1 \ 6} \end{array}$$

$$\begin{array}{r} 3. \quad \quad \quad \quad \quad 8 \ 0 \ 2 \\ \quad \quad \quad \quad \times 2 \ 7 \\ \hline \quad \quad \quad \quad 5 \ 6 \ 1 \ 4 \\ + 1 \ 6 \ 0 \ 4 \ 0 \\ \hline \underline{2 \ 1 \ 6 \ 5 \ 4} \end{array}$$

$$\begin{array}{r} 4. \quad \quad \quad \quad \quad 1 \ 2 \ 9 \\ \quad \quad \quad \quad \times 4 \ 7 \\ \hline \quad \quad \quad \quad 9 \ 0 \ 3 \\ + 5 \ 1 \ 6 \ 0 \\ \hline \underline{6 \ 0 \ 6 \ 3} \end{array}$$

$$\begin{array}{r} 5. \quad \quad \quad \quad \quad 6 \ 5 \ 7 \\ \quad \quad \quad \quad \times 4 \ 6 \\ \hline \quad \quad \quad \quad 3 \ 9 \ 4 \ 2 \\ + 2 \ 6 \ 2 \ 8 \ 0 \\ \hline \underline{3 \ 0 \ 2 \ 2 \ 2} \end{array}$$

$$\begin{array}{r} 6. \quad \quad \quad \quad \quad 8 \ 0 \ 7 \\ \quad \quad \quad \quad \times 5 \ 9 \\ \hline \quad \quad \quad \quad 7 \ 2 \ 6 \ 3 \\ + 4 \ 0 \ 3 \ 5 \ 0 \\ \hline \underline{4 \ 7 \ 6 \ 1 \ 3} \end{array}$$

$$\begin{array}{r} 7. \quad \quad \quad \quad \quad 7 \ 5 \ 9 \\ \quad \quad \quad \quad \times 6 \ 1 \\ \hline \quad \quad \quad \quad 7 \ 5 \ 9 \\ + 4 \ 5 \ 5 \ 4 \ 0 \\ \hline \underline{4 \ 6 \ 2 \ 9 \ 9} \end{array}$$

$$\begin{array}{r} 8. \quad \quad \quad \quad \quad 7 \ 6 \ 6 \\ \quad \quad \quad \quad \times 4 \ 5 \\ \hline \quad \quad \quad \quad 3 \ 8 \ 3 \ 0 \\ + 3 \ 0 \ 6 \ 4 \ 0 \\ \hline \underline{3 \ 4 \ 4 \ 7 \ 0} \end{array}$$

$$\begin{array}{r} 9. \quad \quad \quad \quad \quad 4 \ 8 \ 7 \ 4 \\ \quad \quad \quad \quad \times 1 \ 9 \\ \hline \quad \quad \quad \quad 4 \ 3 \ 8 \ 6 \ 6 \\ + 4 \ 8 \ 7 \ 4 \ 0 \\ \hline \underline{9 \ 2 \ 6 \ 0 \ 6} \end{array}$$

$$\begin{array}{r} 10. \quad \quad \quad \quad \quad 2 \ 1 \ 2 \ 4 \\ \quad \quad \quad \quad \times 1 \ 8 \\ \hline \quad \quad \quad \quad 1 \ 6 \ 9 \ 9 \ 2 \\ + 2 \ 1 \ 2 \ 4 \ 0 \\ \hline \underline{3 \ 8 \ 2 \ 3 \ 2} \end{array}$$

$$\begin{array}{r}
 11. \quad \begin{array}{r} 7\ 5\ 6\ 0 \\ \times 2\ 9 \\ \hline 6\ 8\ 0\ 4\ 0 \\ + 1\ 5\ 1\ 2\ 0\ 0 \\ \hline 2\ 1\ 9\ 2\ 4\ 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 12. \quad \begin{array}{r} 6\ 2 \\ \times 1\ 4 \\ \hline 2\ 4\ 8 \\ + 6\ 2\ 0 \\ \hline 8\ 6\ 8 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{B } 1. \quad \begin{array}{r} 2\ 8 \\ \times 5\ 0 \\ \hline 0\ 0 \\ + 1\ 4\ 0\ 0 \\ \hline 1\ 4\ 0\ 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 2\ 8\ 4\ 1 \\ \times 7\ 0 \\ \hline 0\ 0\ 0\ 0 \\ + 1\ 9\ 8\ 8\ 7\ 0 \\ \hline 1\ 9\ 8\ 8\ 7\ 0
 \end{array}$$

$$\begin{array}{r}
 3. \quad \begin{array}{r} 7\ 0\ 7 \\ \times 8\ 0 \\ \hline 0\ 0\ 0 \\ + 5\ 6\ 5\ 6\ 0 \\ \hline 5\ 6\ 5\ 6\ 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 2\ 9\ 1 \\ \times 3\ 0 \\ \hline 0\ 0\ 0 \\ + 8\ 7\ 3\ 0 \\ \hline 8\ 7\ 3\ 0
 \end{array}$$

$$\begin{array}{r}
 5. \quad \begin{array}{r} 4\ 3\ 8 \\ \times 5\ 0 \\ \hline 0\ 0\ 0 \\ + 2\ 1\ 9\ 0\ 0 \\ \hline 2\ 1\ 9\ 0\ 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 2\ 4\ 2 \\ \times 8\ 0 \\ \hline 0\ 0\ 0 \\ + 1\ 9\ 3\ 6\ 0 \\ \hline 1\ 9\ 3\ 6\ 0
 \end{array}$$

$$\begin{array}{r}
 7. \quad \begin{array}{r} 1\ 8\ 9\ 2 \\ \times 6\ 0 \\ \hline 0\ 0\ 0\ 0 \\ + 1\ 1\ 3\ 5\ 2\ 0 \\ \hline 1\ 1\ 3\ 5\ 2\ 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 1\ 2\ 4\ 5 \\ \times 4\ 0 \\ \hline 0\ 0\ 0\ 0 \\ + 4\ 9\ 8\ 0\ 0 \\ \hline 4\ 9\ 8\ 0\ 0
 \end{array}$$

$$\begin{array}{r}
 9. \quad \begin{array}{r} 6\ 4\ 0\ 5 \\ \times 5\ 0 \\ \hline 0\ 0\ 0\ 0 \\ + 3\ 2\ 0\ 2\ 5\ 0 \\ \hline 3\ 2\ 0\ 2\ 5\ 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 10. \quad \begin{array}{r} 9\ 2\ 8\ 4 \\ \times 3\ 0 \\ \hline 0\ 0\ 0\ 0 \\ + 2\ 7\ 8\ 5\ 2\ 0 \\ \hline 2\ 7\ 8\ 5\ 2\ 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 11. \quad \begin{array}{r} 1\ 3\ 4\ 8 \\ \times 2\ 0 \\ \hline 0\ 0\ 0\ 0 \\ + 2\ 6\ 9\ 6\ 0 \\ \hline 2\ 6\ 9\ 6\ 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 12. \quad \begin{array}{r} 1\ 2\ 3 \\ \times 4\ 0 \\ \hline 0\ 0\ 0 \\ + 4\ 9\ 2\ 0 \\ \hline 4\ 9\ 2\ 0 \end{array}
 \end{array}$$

- C** 1. 800000 2. 995000 3. 12500 4. 4200
 5. 290 6. 960000 7. 1430000 8. 70

Practice Time 4.4

$$\begin{array}{r}
 \text{A } 1. \quad \begin{array}{r} 3\ 6\ 4 \\ \times 1\ 2\ 3 \\ \hline 1\ 0\ 9\ 2 \\ 7\ 2\ 8\ 0 \\ + 3\ 6\ 4\ 0\ 0 \\ \hline 4\ 4\ 7\ 7\ 2 \end{array}
 \end{array}$$

$$\begin{array}{r}
 2. \quad \begin{array}{r} 4\ 6\ 5 \\ \times 3\ 3\ 8 \\ \hline 3\ 7\ 2\ 0 \\ 1\ 3\ 9\ 5\ 0 \\ + 1\ 3\ 9\ 5\ 0\ 0 \\ \hline 1\ 5\ 7\ 1\ 7\ 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 3. \quad \begin{array}{r} 3\ 7\ 7 \\ \times 3\ 2\ 2 \\ \hline 7\ 5\ 4 \\ 7\ 5\ 4\ 0 \\ + 1\ 1\ 3\ 1\ 0\ 0 \\ \hline 1\ 2\ 1\ 3\ 9\ 4 \end{array}
 \end{array}$$

$$\begin{array}{r}
 4. \quad \begin{array}{r} 3\ 1\ 4 \\ \times 7\ 1\ 2 \\ \hline 6\ 2\ 8 \\ 3\ 1\ 4\ 0 \\ + 2\ 1\ 9\ 8\ 0\ 0 \\ \hline 2\ 2\ 3\ 5\ 6\ 8 \end{array}
 \end{array}$$

$$\begin{array}{r}
 5. \quad \begin{array}{r} 4\ 7\ 4 \\ \times 2\ 7\ 6 \\ \hline 2\ 8\ 4\ 4 \\ 3\ 3\ 1\ 8\ 0 \\ + 9\ 4\ 8\ 0\ 0 \\ \hline 1\ 3\ 0\ 8\ 2\ 4 \end{array}
 \end{array}$$

$$\begin{array}{r}
 6. \quad \begin{array}{r} 2\ 0\ 3\ 9 \\ \times 1\ 6\ 4 \\ \hline 8\ 1\ 5\ 6 \\ 1\ 2\ 2\ 3\ 4\ 0 \\ + 2\ 0\ 3\ 9\ 0\ 0 \\ \hline 3\ 3\ 4\ 3\ 9\ 6 \end{array}
 \end{array}$$

$$\begin{array}{r}
 7. \quad \begin{array}{r} 2\ 0\ 8\ 6 \\ \times 3\ 4\ 7 \\ \hline 1\ 4\ 6\ 0\ 2 \\ 8\ 3\ 4\ 4\ 0 \\ + 6\ 2\ 5\ 8\ 0\ 0 \\ \hline 7\ 2\ 3\ 8\ 4\ 2 \end{array}
 \end{array}$$

$$\begin{array}{r}
 8. \quad \begin{array}{r} 1\ 6\ 7\ 2 \\ \times 7\ 8\ 2 \\ \hline 3\ 3\ 4\ 4 \\ 1\ 3\ 3\ 7\ 6\ 0 \\ + 1\ 1\ 7\ 0\ 4\ 0\ 0 \\ \hline 1\ 3\ 0\ 7\ 5\ 0\ 4 \end{array}
 \end{array}$$

$$\begin{array}{r}
 9. \quad \begin{array}{r} 2175 \\ \times 135 \\ \hline 10875 \\ 65250 \\ + 217500 \\ \hline 293625 \end{array}
 \end{array}$$

$$\begin{array}{r}
 10. \quad \begin{array}{r} 6392 \\ \times 292 \\ \hline 12784 \\ 575280 \\ + 1278400 \\ \hline 1866464 \end{array}
 \end{array}$$

- B**
- $519 \times 300 = (519 \times 3) \times 100 = 155700$
 - $296 \times 300 = (296 \times 3) \times 100 = 88800$
 - $726 \times 400 = (726 \times 4) \times 100 = 290400$
 - $5009 \times 800 = (5009 \times 8) \times 100 = 4007200$
 - $684 \times 600 = (684 \times 6) \times 100 = 410400$
 - $1324 \times 600 = (1324 \times 6) \times 100 = 794400$
 - $1092 \times 400 = (1092 \times 4) \times 100 = 436800$
 - $8432 \times 200 = (8432 \times 2) \times 100 = 1686400$

Practice Time 4.5

- 4, 555555
- 4004, 5005, 6006
- 17776, 177776
- 59994, 599994
- 555, 666
- 499849, 652864, 826281

Practice Time 4.6

- Number of houses in one row = 126

Number of rows = 62

Number of houses in 62 rows = 62×126

Therefore, 7812 houses were in the township

$$\begin{array}{r}
 126 \\
 \times 62 \\
 \hline
 252 \\
 7560 \\
 \hline
 7812
 \end{array}$$

- Weight of apples in one truck = 492 kg

Weight of apples in 479 trucks = 492×479

$$\begin{array}{r}
 492 \\
 \times 479 \\
 \hline
 4428 \\
 34440 \\
 + 196800 \\
 \hline
 235668
 \end{array}$$

Therefore, 235668 kg of apples have come to the city.

3. Number of balls in one basket = 208 $\begin{array}{r} 208 \\ \times 8 \\ \hline 1664 \end{array}$
 Number of balls in 8 baskets = 208×8
 Therefore, 1664 balls were in 8 baskets.

4. Number of cards in one pack = 52
 Number of cards in 624 packs = 52×624

$$\begin{array}{r} 624 \\ \times 52 \\ \hline 1248 \\ + 31200 \\ \hline 32448 \end{array}$$

Therefore, 32448 cards were in 624 packs

5. Number of flowers packed in one box = 186
 Number of flowers packed in 426 boxes = 186×426

$$\begin{array}{r} 426 \\ \times 186 \\ \hline 2556 \\ 34080 \\ + 42600 \\ \hline 79236 \end{array}$$

Therefore, 79236 flowers were packed in 426 boxes.

6. $\begin{array}{r} 245 \\ \times 65 \\ \hline 1225 \\ + 14700 \\ \hline 15925 \end{array}$ $\begin{array}{r} 2455 \\ \times 6 \\ \hline 14730 \end{array}$
 $15925 > 14730$ $\begin{array}{r} 15925 \\ - 14730 \\ \hline 1195 \end{array}$

Therefore, 245×65 is greater by 1195.

7. Number of flower plants in one row = 300
 Number of flower plants in 98 rows = 300×98
 $= (3 \times 98) \times 100 = 29400$
 Therefore, 29400 flower plants were in the garden.

8. Total money - ₹ $50 \times 925 = ₹ (5 \times 925) \times 10 = ₹ 46250$

9. Number of tube lights produced everyday = 1452

Number of tubelights in 26 working days = 1452×26

$$\begin{array}{r} 1452 \\ \times 26 \\ \hline 8712 \\ + 29040 \\ \hline 37752 \end{array}$$

Therefore, 37752 tubelights were produced in 26 working days.

10. Number of toffees in one packet = 375

Number of toffees in 122 packets = 375×122

$$\begin{array}{r} 375 \\ \times 122 \\ \hline 750 \\ 7500 \\ + 37500 \\ \hline 45750 \end{array}$$

Therefore, 45750 toffees were in 122 packets

CHAPTER - 5

Practice Time 5.1

1. $3245 \div 4$

$$\begin{array}{r} 4 \overline{)3245} (811 \\ \underline{-32} \downarrow \\ 04 \\ \underline{-4} \downarrow \\ 05 \\ \underline{-4} \\ 1 \end{array}$$

Q = 811

R = 1

2. $7260 \div 5$

$$\begin{array}{r} 5 \overline{)7260} (1452 \\ \underline{-5} \downarrow \\ 22 \\ \underline{-20} \downarrow \\ 26 \\ \underline{-25} \downarrow \\ 10 \\ \underline{-10} \\ 0 \end{array}$$

Q = 1452

R = 0

3. $8308 \div 6$

$$\begin{array}{r} 6 \overline{)8308}(1384 \\ \underline{-6\downarrow} \\ 23 \\ \underline{-18\downarrow} \\ 50 \\ \underline{-48\downarrow} \\ 28 \\ \underline{-24\downarrow} \\ 4 \end{array}$$

$Q = 1384$

$R = 4$

5. $5208 \div 6$

$$\begin{array}{r} 6 \overline{)5208}(868 \\ \underline{-48\downarrow} \\ 40 \\ \underline{-36\downarrow} \\ 48 \\ \underline{-48\downarrow} \\ 0 \end{array}$$

$Q = 868$

$R = 0$

7. $4821 \div 9$

$$\begin{array}{r} 9 \overline{)4821}(535 \\ \underline{-45\downarrow} \\ 32 \\ \underline{-27\downarrow} \\ 51 \\ \underline{-45\downarrow} \\ 6 \end{array}$$

$Q = 535$

$R = 6$

4. $2184 \div 3$

$$\begin{array}{r} 3 \overline{)2184}(728 \\ \underline{-21\downarrow} \\ 08 \\ \underline{-6\downarrow} \\ 24 \\ \underline{-24\downarrow} \\ 0 \end{array}$$

$Q = 728$

$R = 0$

6. $8220 \div 5$

$$\begin{array}{r} 5 \overline{)8220}(1644 \\ \underline{-5\downarrow} \\ 32 \\ \underline{-30\downarrow} \\ 22 \\ \underline{-20\downarrow} \\ 20 \\ \underline{-20\downarrow} \\ 0 \end{array}$$

$Q = 1644$

$R = 0$

8. $6537 \div 3$

$$\begin{array}{r} 3 \overline{)6537}(2179 \\ \underline{-6\downarrow} \\ 05 \\ \underline{-3\downarrow} \\ 23 \\ \underline{-21\downarrow} \\ 27 \\ \underline{-27\downarrow} \\ 0 \end{array}$$

$Q = 2179$

$R = 0$

9. $8392 \div 7$

$$\begin{array}{r} 7 \overline{)8392} (1198 \\ \underline{-7\downarrow} \\ 13 \\ \underline{-7\downarrow} \\ 69 \\ \underline{-63\downarrow} \\ 62 \\ \underline{-56\downarrow} \\ 6 \end{array}$$

$Q = 1198$

$R = 6$

11. $6738 \div 8$

$$\begin{array}{r} 8 \overline{)6738} (842 \\ \underline{-64\downarrow} \\ 33 \\ \underline{-32\downarrow} \\ 18 \\ \underline{-16\downarrow} \\ 2 \end{array}$$

$Q = 842$

$R = 2$

13. $7216 \div 8$

$$\begin{array}{r} 8 \overline{)7216} (902 \\ \underline{-72\downarrow} \\ 16 \\ \underline{-16\downarrow} \\ 0 \end{array}$$

$Q = 902$

$R = 0$

10. $1062 \div 2$

$$\begin{array}{r} 2 \overline{)1062} (531 \\ \underline{-10\downarrow} \\ 06 \\ \underline{-6\downarrow} \\ 02 \\ \underline{-02\downarrow} \\ 0 \end{array}$$

$Q = 531$

$R = 0$

12. $2348 \div 4$

$$\begin{array}{r} 4 \overline{)2348} (587 \\ \underline{-20\downarrow} \\ 34 \\ \underline{-32\downarrow} \\ 28 \\ \underline{-28\downarrow} \\ 0 \end{array}$$

$Q = 587$

$R = 0$

14. $6524 \div 4$

$$\begin{array}{r} 4 \overline{)6524} (1631 \\ \underline{-4\downarrow} \\ 25 \\ \underline{-24\downarrow} \\ 12 \\ \underline{-12\downarrow} \\ 04 \\ \underline{-04\downarrow} \\ 0 \end{array}$$

$Q = 1631$

$R = 0$

15. $2148 \div 2$

$$\begin{array}{r} 2 \overline{)2148}(1074 \\ \underline{-2\downarrow\downarrow} \\ 14 \\ \underline{-14\downarrow} \\ 08 \\ \underline{-08} \\ 0 \end{array}$$

$Q = 1074, R = 0$

Practice Time 5.2

A 2. $4 \overline{)32}(8$

$$\begin{array}{r} \underline{-32} \\ 0 \end{array}$$

$Q = 8, R = 0$

4. $8 \overline{)48}(6$

$$\begin{array}{r} \underline{-48} \\ 0 \end{array}$$

$Q = 6, R = 0$

6. $5 \overline{)45}(9$

$$\begin{array}{r} \underline{-45} \\ 0 \end{array}$$

$Q = 9, R = 0$

8. $3 \overline{)36}(12$

$$\begin{array}{r} \underline{-3\downarrow} \\ 6 \\ \underline{-6} \\ 0 \end{array}$$

$Q = 12, R = 0$

B 1. $640 \div 80$

$$\begin{array}{r} 80 \overline{)640}(8 \\ \underline{-640} \\ 0 \end{array}$$

$Q = 8, R = 0$

16. $2020 \div 4$

$$\begin{array}{r} 4 \overline{)2020}(505 \\ \underline{-20\downarrow\downarrow} \\ 020 \\ \underline{-20} \\ 0 \end{array}$$

$Q = 505, R = 0$

3. $9 \overline{)45}(5$

$$\begin{array}{r} \underline{-45} \\ 0 \end{array}$$

$Q = 5, R = 0$

5. $6 \overline{)36}(6$

$$\begin{array}{r} \underline{-36} \\ 0 \end{array}$$

$Q = 6, R = 0$

7. $3 \overline{)27}(9$

$$\begin{array}{r} \underline{-27} \\ 0 \end{array}$$

$Q = 9, R = 0$

2. $90 \div 30$

$$\begin{array}{r} 30 \overline{)90}(3 \\ \underline{-90} \\ 0 \end{array}$$

$Q = 3, R = 0$

$$\begin{array}{r} 3. \quad 80 \div 20 \\ 20 \overline{)80} \text{ (4)} \\ \underline{-80} \\ 0 \end{array}$$

$$Q = 4, R = 0$$

$$5. \quad 890 \div 10$$

$$\begin{array}{r} 10 \overline{)890} \text{ (89)} \\ \underline{-80} \downarrow \\ 90 \\ \underline{-90} \\ 0 \end{array}$$

$$Q = 89, R = 0$$

$$7. \quad 350 \div 50$$

$$\begin{array}{r} 50 \overline{)350} \text{ (7)} \\ \underline{-350} \\ 0 \end{array}$$

$$Q = 7, R = 0$$

$$\begin{array}{r} 9. \quad 70 \div 10 \\ 10 \overline{)70} \text{ (7)} \\ \underline{-70} \\ 0 \end{array}$$

$$Q = 7, R = 0$$

$$11. \quad 630 \div 70$$

$$\begin{array}{r} 70 \overline{)630} \text{ (9)} \\ \underline{-630} \\ 0 \end{array}$$

$$Q = 9, R = 0$$

$$\begin{array}{r} 4. \quad 240 \div 40 \\ 40 \overline{)240} \text{ (6)} \\ \underline{-240} \\ 0 \end{array}$$

$$Q = 6, R = 0$$

$$6. \quad 270 \div 30$$

$$\begin{array}{r} 30 \overline{)270} \text{ (9)} \\ \underline{-270} \\ 0 \end{array}$$

$$Q = 9, R = 0$$

$$8. \quad 490 \div 70$$

$$\begin{array}{r} 70 \overline{)490} \text{ (7)} \\ \underline{-490} \\ 0 \end{array}$$

$$Q = 7, R = 0$$

$$10. \quad 720 \div 60$$

$$\begin{array}{r} 60 \overline{)720} \text{ (12)} \\ \underline{-60} \downarrow \\ 120 \\ \underline{-120} \\ 0 \end{array}$$

$$Q = 12, R = 0$$

$$12. \quad 480 \div 60$$

$$\begin{array}{r} 60 \overline{)480} \text{ (8)} \\ \underline{-480} \\ 0 \end{array}$$

$$Q = 8, R = 0$$

13. $420 \div 20$

$$\begin{array}{r} 20 \overline{)420} (21 \\ \underline{-40} \downarrow \\ 20 \\ \underline{-20} \\ 0 \end{array}$$

$Q = 21, R = 0$

14. $150 \div 30$

$$\begin{array}{r} 30 \overline{)150} (5 \\ \underline{-150} \\ 0 \end{array}$$

$Q = 5, R = 0$

15. $250 \div 50$

$$\begin{array}{r} 50 \overline{)250} (5 \\ \underline{-250} \\ 0 \end{array}$$

$Q = 5, R = 0$

16. $330 \div 10$

$$\begin{array}{r} 10 \overline{)330} (33 \\ \underline{-330} \\ 0 \end{array}$$

$Q = 33, R = 0$

C 1. $290 \div 50$

$$\begin{array}{r} 50 \overline{)290} (5 \\ \underline{-250} \\ 40 \end{array}$$

$Q = 5, R = 40$

2. $218 \div 90$

$$\begin{array}{r} 90 \overline{)218} (2 \\ \underline{-180} \\ 38 \end{array}$$

$Q = 2, R = 38$

3. $217 \div 30$

$$\begin{array}{r} 30 \overline{)217} (7 \\ \underline{-210} \\ 7 \end{array}$$

$Q = 7, R = 7$

4. $920 \div 50$

$$\begin{array}{r} 50 \overline{)920} (18 \\ \underline{-50} \downarrow \\ 420 \\ \underline{-400} \\ 20 \end{array}$$

$Q = 18, R = 20$

5. $445 \div 20$

$$\begin{array}{r} 20 \overline{)445} (22 \\ \underline{-40} \downarrow \\ 45 \\ \underline{-40} \\ 5 \end{array}$$

$Q = 22, R = 5$

6. $456 \div 60$

$$\begin{array}{r} 60 \overline{)456} (7 \\ \underline{-420} \\ 36 \end{array}$$

$Q = 7, R = 36$

7. $272 \div 40$

$$\begin{array}{r} 40 \overline{)272} \langle 6 \\ -240 \\ \hline 32 \end{array}$$

$Q = 6, R = 32$

8. $242 \div 10$

$$\begin{array}{r} 10 \overline{)242} \langle 24 \\ -20 \downarrow \\ \hline 42 \\ -40 \\ \hline 2 \end{array}$$

$Q = 24, R = 2$

Practice Time 5.3

Do it yourself

Practice Time 5.4

A 1. $75 \div 25$

$$\begin{array}{r} 25 \overline{)75} \langle 3 \\ -75 \\ \hline 0 \end{array}$$

$Q = 3, R = 0$

2. $84 \div 15$

$$\begin{array}{r} 15 \overline{)84} \langle 5 \\ -75 \\ \hline 9 \end{array}$$

$Q = 5, R = 9$

3. $51 \div 33$

$$\begin{array}{r} 33 \overline{)51} \langle 1 \\ -33 \\ \hline 18 \end{array}$$

$Q = 1, R = 18$

4. $42 \div 22$

$$\begin{array}{r} 22 \overline{)42} \langle 1 \\ -22 \\ \hline 20 \end{array}$$

$Q = 1, R = 20$

5. $23 \div 11$

$$\begin{array}{r} 11 \overline{)23} \langle 2 \\ -22 \\ \hline 1 \end{array}$$

$Q = 2, R = 1$

6. $93 \div 22$

$$\begin{array}{r} 22 \overline{)93} \langle 4 \\ -88 \\ \hline 5 \end{array}$$

$Q = 4, R = 5$

7. $44 \div 36$

$$\begin{array}{r} 36 \overline{)44} \langle 1 \\ -36 \\ \hline 8 \end{array}$$

$Q = 1, R = 8$

8. $68 \div 22$

$$\begin{array}{r} 22 \overline{)68} \langle 3 \\ -66 \\ \hline 2 \end{array}$$

$Q = 3, R = 2$

$$9. 79 \div 28$$

$$\begin{array}{r} 28 \overline{) 79} (2 \\ -56 \\ \hline 23 \end{array}$$

$$Q = 2, R = 23$$

$$11. 81 \div 14$$

$$\begin{array}{r} 14 \overline{) 81} (5 \\ -70 \\ \hline 11 \end{array}$$

$$Q = 5, R = 11$$

$$13. 91 \div 13$$

$$\begin{array}{r} 13 \overline{) 91} (7 \\ -91 \\ \hline 0 \end{array}$$

$$Q = 7, R = 0$$

$$15. 79 \div 17$$

$$\begin{array}{r} 17 \overline{) 79} (4 \\ -68 \\ \hline 11 \end{array}$$

$$Q = 4, R = 11$$

$$\mathbf{B} \quad 1. 629 \div 88$$

$$\begin{array}{r} 88 \overline{) 629} (7 \\ -616 \\ \hline 13 \end{array}$$

$$Q = 7, R = 13$$

$$3. 461 \div 57$$

$$\begin{array}{r} 57 \overline{) 461} (8 \\ -456 \\ \hline 5 \end{array}$$

$$Q = 8, R = 5$$

$$10. 96 \div 28$$

$$\begin{array}{r} 28 \overline{) 96} (3 \\ -84 \\ \hline 12 \end{array}$$

$$Q = 3, R = 12$$

$$12. 67 \div 16$$

$$\begin{array}{r} 16 \overline{) 67} (4 \\ -64 \\ \hline 3 \end{array}$$

$$Q = 4, R = 3$$

$$14. 93 \div 39$$

$$\begin{array}{r} 39 \overline{) 93} (2 \\ -78 \\ \hline 15 \end{array}$$

$$Q = 2, R = 15$$

$$16. 21 \div 12$$

$$\begin{array}{r} 12 \overline{) 21} (1 \\ -12 \\ \hline 9 \end{array}$$

$$Q = 1, R = 9$$

$$2. 331 \div 46$$

$$\begin{array}{r} 46 \overline{) 331} (7 \\ -322 \\ \hline 9 \end{array}$$

$$Q = 7, R = 9$$

$$4. 484 \div 17$$

$$\begin{array}{r} 17 \overline{) 484} (28 \\ -34 \downarrow \\ \hline 144 \end{array}$$

$$\begin{array}{r} -136 \\ \hline 8 \end{array} \quad \begin{array}{l} Q = 28 \\ R = 8 \end{array}$$

5. $952 \div 52$

$$\begin{array}{r} 52 \overline{)952} 18 \\ -52 \downarrow \\ 432 \\ -416 \\ \hline 16 \end{array}$$

$Q = 18, R = 16$

7. $424 \div 16$

$$\begin{array}{r} 16 \overline{)424} 26 \\ -32 \downarrow \\ 104 \\ -96 \\ \hline 8 \end{array}$$

$Q = 26, R = 8$

9. $736 \div 32$

$$\begin{array}{r} 32 \overline{)736} 23 \\ -64 \downarrow \\ 96 \\ -96 \\ \hline 0 \end{array}$$

$Q = 23, R = 0$

11. $361 \div 45$

$$\begin{array}{r} 45 \overline{)361} 8 \\ -360 \\ \hline 1 \end{array}$$

$Q = 8, R = 1$

13. $896 \div 14$

$$\begin{array}{r} 14 \overline{)896} 64 \\ -84 \downarrow \\ 56 \\ -56 \\ \hline 0 \end{array}$$

$Q = 64, R = 0$

6. $518 \div 47$

$$\begin{array}{r} 47 \overline{)518} 11 \\ -47 \downarrow \\ 48 \\ -47 \\ \hline 1 \end{array}$$

$Q = 11, R = 1$

8. $913 \div 57$

$$\begin{array}{r} 57 \overline{)913} 16 \\ -57 \downarrow \\ 343 \\ -342 \\ \hline 1 \end{array}$$

$Q = 16, R = 1$

10. $139 \div 16$

$$\begin{array}{r} 16 \overline{)139} 8 \\ -128 \\ \hline 11 \end{array}$$

$Q = 8, R = 11$

12. $511 \div 46$

$$\begin{array}{r} 46 \overline{)511} 11 \\ -46 \downarrow \\ 51 \\ -46 \\ \hline 5 \end{array}$$

$Q = 11, R = 5$

14. $177 \div 93$

$$\begin{array}{r} 93 \overline{)177} 1 \\ -93 \\ \hline 84 \end{array}$$

$Q = 1, R = 84$

15. $906 \div 79$

$$\begin{array}{r} 79 \overline{)906} (11 \\ -79 \downarrow \\ \hline 116 \\ -79 \\ \hline 37 \end{array}$$

$Q = 11, R = 37$

16. $749 \div 13$

$$\begin{array}{r} 13 \overline{)749} (57 \\ -65 \downarrow \\ \hline 99 \\ -91 \\ \hline 8 \end{array}$$

$Q = 57, R = 8$

C 1. $823 \div 36$

$Q = 22$

$R = 31$

Check

$823 = 36 \times 22 + 31$

$823 = 792 + 31$

$823 = 823$

$$\begin{array}{r} 36 \overline{)823} (22 \\ -72 \downarrow \\ \hline 103 \\ -72 \\ \hline 31 \end{array}$$

2. $940 \div 38$

$Q = 24$

$R = 28$

Check

$940 = 38 \times 24 + 28$

$940 = 912 + 28$

$940 = 940$

$$\begin{array}{r} 38 \overline{)940} (24 \\ -76 \downarrow \\ \hline 180 \\ -152 \\ \hline 28 \end{array}$$

3. $908 \div 58$

$Q = 15$

$R = 38$

Check

$908 = 58 \times 15 + 38$

$908 = 870 + 38$

$908 = 908$

$$\begin{array}{r} 58 \overline{)908} (15 \\ -58 \downarrow \\ \hline 328 \\ -290 \\ \hline 38 \end{array}$$

4. $230 \div 42$

$Q = 5$

$R = 20$

Check

$230 = 42 \times 5 + 20$

$230 = 210 + 20$

$230 = 230$

$$\begin{array}{r} 42 \overline{)230} \text{ (5)} \\ -210 \\ \hline 20 \end{array}$$

5. $940 \div 38$

$Q = 24$

$R = 28$

Check

$940 = 38 \times 24 + 28$

$940 = 912 + 28$

$940 = 940$

$$\begin{array}{r} 38 \overline{)940} \text{ (24)} \\ -76 \downarrow \\ \hline 180 \\ -152 \\ \hline 28 \end{array}$$

6. $511 \div 46$

$Q = 11$

$R = 5$

Check

$511 = 46 \times 11 + 5$

$511 = 511$

$$\begin{array}{r} 46 \overline{)511} \text{ (11)} \\ -46 \downarrow \\ \hline 51 \\ -46 \\ \hline 5 \end{array}$$

7. $799 \div 99$

$Q = 8$

$R = 7$

Check

$799 = 99 \times 8 + 7$

$799 = 792 + 7$

$799 = 799$

$$\begin{array}{r} 99 \overline{)799} \text{ (8)} \\ -792 \\ \hline 7 \end{array}$$

8. $339 \div 48$

$Q = 7$

$R = 3$

$$\begin{array}{r} 48 \overline{)339} \text{ (7)} \\ -336 \\ \hline 3 \end{array}$$

Check

$$399 = 48 \times 7 + 3$$

$$399 = 336 + 3$$

$$339 = 339$$

9. $649 \div 59$

$$Q = 11$$

$$R = 0$$

Check

$$649 = 59 \times 11 + 0$$

$$649 = 649$$

$$\begin{array}{r} 59 \overline{)649}(11 \\ \underline{-59\downarrow} \\ 59 \\ \underline{-59} \\ 0 \end{array}$$

10. $638 \div 58$

$$Q = 11$$

$$R = 0$$

Check

$$638 = 58 \times 11 + 0$$

$$638 = 638$$

$$\begin{array}{r} 58 \overline{)638}(11 \\ \underline{-58\downarrow} \\ 58 \\ \underline{-58} \\ 0 \end{array}$$

11. $726 \div 19$

$$Q = 38$$

$$R = 4$$

Check

$$726 = 19 \times 38 + 4$$

$$726 = 722 + 4$$

$$726 = 726$$

$$\begin{array}{r} 19 \overline{)726}(38 \\ \underline{-57\downarrow} \\ 156 \\ \underline{-152} \\ 4 \end{array}$$

12. $989 \div 43$

$$Q = 23$$

$$R = 0$$

Check

$$989 = 43 \times 23 + 0$$

$$989 = 989$$

$$\begin{array}{r} 43 \overline{)989}(23 \\ \underline{-86\downarrow} \\ 129 \\ \underline{-129} \\ 0 \end{array}$$

$$13. 857 \div 46$$

$$Q = 18$$

$$R = 29$$

Check

$$857 = 46 \times 18 + 29$$

$$857 = 828 + 29$$

$$857 = 857$$

$$\begin{array}{r} 46 \overline{) 457} (18 \\ \underline{-46} \downarrow \\ 397 \\ \underline{-368} \\ 29 \end{array}$$

$$14. 227 \div 29$$

$$Q = 7$$

$$R = 24$$

Check

$$227 = 29 \times 7 + 24$$

$$227 = 203 + 24$$

$$227 = 227$$

$$\begin{array}{r} 29 \overline{) 227} (7 \\ \underline{-203} \\ 24 \end{array}$$

$$15. 429 \div 55$$

$$Q = 7$$

$$R = 44$$

Check

$$429 = 55 \times 7 + 44$$

$$429 = 385 + 44$$

$$429 = 429$$

$$\begin{array}{r} 55 \overline{) 429} (7 \\ \underline{-385} \\ 44 \end{array}$$

$$16. 816 \div 73$$

$$Q = 11$$

$$R = 13$$

Check

$$816 = 73 \times 11 + 13$$

$$816 = 803 + 13$$

$$816 = 816$$

$$\begin{array}{r} 73 \overline{) 816} (11 \\ \underline{-73} \downarrow \\ 86 \\ \underline{-73} \\ 13 \end{array}$$

Practice Time 5.5

A 1. ₹ 105 by 3

$$\begin{array}{r} 3 \overline{)105} \begin{array}{l} 35 \\ -9\downarrow \\ \hline 15 \\ -15 \\ \hline 0 \end{array} \end{array}$$

Ans. ₹ 35

3. ₹ 336.90 by 6

$$\begin{array}{r} 6 \overline{)336.90} \begin{array}{l} 56.15 \\ -30\downarrow \\ \hline 36 \\ -36\downarrow \\ \hline 09 \\ -6\downarrow \\ \hline 30 \\ -30 \\ \hline 0 \end{array} \end{array}$$

Ans. ₹ 56.15

5. ₹ 224.00 by 4

$$\begin{array}{r} 4 \overline{)224.00} \begin{array}{l} 56.00 \\ -20\downarrow \\ \hline 24 \\ -24\downarrow \\ \hline 00 \\ -0\downarrow \\ \hline 00 \\ -0 \\ \hline 0 \end{array} \end{array}$$

Ans. ₹ 56.00

2. ₹ 156.60 by 10

$$\begin{array}{r} 10 \overline{)156.60} \begin{array}{l} 15.66 \\ -10\downarrow \\ \hline 56 \\ -50\downarrow \\ \hline 66 \\ -60\downarrow \\ \hline 60 \\ -60 \\ \hline 0 \end{array} \end{array}$$

Ans. ₹ 15.66

4. ₹ 458.50 by 7

$$\begin{array}{r} 7 \overline{)458.50} \begin{array}{l} 65.50 \\ -42\downarrow \\ \hline 38 \\ -35\downarrow \\ \hline 35 \\ -35\downarrow \\ \hline 00 \\ -0 \\ \hline 0 \end{array} \end{array}$$

Ans. 65.50

6. ₹ 149.52 by 4

$$\begin{array}{r} 4 \overline{)149.52} \begin{array}{l} 37.38 \\ -12\downarrow \\ \hline 29 \\ -28\downarrow \\ \hline 15 \\ -12\downarrow \\ \hline 32 \\ -32 \\ \hline 0 \end{array} \end{array}$$

Ans. ₹ 37.38

7. ₹ 52.60 by 6

$$\begin{array}{r} 6 \overline{)52.50}(8.75 \\ \underline{-48} \downarrow \\ 45 \downarrow \\ \underline{-42} \downarrow \\ 30 \\ \underline{-30} \\ 0 \end{array}$$

Ans. ₹ 8.75

8. ₹ 80.70 by 2

$$\begin{array}{r} 2 \overline{)80.70}(40.35 \\ \underline{-8} \downarrow \\ 00 \downarrow \\ \underline{-0} \downarrow \\ 7 \downarrow \\ \underline{-6} \downarrow \\ 10 \\ \underline{-10} \\ 0 \end{array}$$

Ans. ₹ 40.35

9. ₹ 94.50 by 3

$$\begin{array}{r} 3 \overline{)94.50}(31.50 \\ \underline{-9} \downarrow \\ 04 \downarrow \\ \underline{-3} \downarrow \\ 15 \downarrow \\ \underline{-15} \downarrow \\ 00 \\ \underline{-00} \\ 0 \end{array}$$

Ans. ₹ 31.50

B 1. Cost of 3 pens = ₹ 49.50

Cost of 1 pen = ₹ $49.50 \div 3$

$$\begin{array}{r} 3 \overline{)49.50}(16.50 \\ \underline{-3} \downarrow \\ 19 \downarrow \\ \underline{-18} \downarrow \\ 15 \downarrow \\ \underline{-15} \downarrow \\ 00 \\ \underline{-00} \\ 0 \end{array}$$

Therefore, ₹ 16.50 is the cost of 1 pen

2. Cost of 9 crayon boxes = ₹ 229.50

Cost of 1 crayon box = ₹ $229.50 \div 9$

$$\begin{array}{r} 9 \overline{)229.50}(25.50 \\ \underline{-18\downarrow} \\ 49 \\ \underline{-45\downarrow} \\ 45 \\ \underline{-45\downarrow} \\ 00 \\ \underline{-00\downarrow} \\ 0 \end{array}$$

Therefore, ₹ 25.50 is the cost of 1 crayon box.

3. Cost of 3 story books = ₹ 188.25

Cost of 1 story book = ₹ $188.25 \div 3$

$$\begin{array}{r} 3 \overline{)188.25}(62.75 \\ \underline{-18\downarrow} \\ 08 \\ \underline{-6\downarrow} \\ 22 \\ \underline{-21\downarrow} \\ 15 \\ \underline{-15\downarrow} \\ 0 \end{array}$$

Therefore, 62.75 is the cost of 1 story book.

4. Cost of 5 book = ₹ 283.75

Cost of 1 book = ₹ $283.75 \div 5$

$$\begin{array}{r} 5 \overline{)283.75}(56.75 \\ \underline{-25\downarrow} \\ 33 \\ \underline{-30\downarrow} \\ 37 \\ \underline{-35\downarrow} \\ 25 \\ \underline{-25\downarrow} \\ 0 \end{array}$$

Therefore, ₹ 56.75 is
the cost of 1 book.

Practice Time 5.6

A 1. $2, 20, 200, 2000$

2. $2, 20, 200, 2000$

3. $2000, 200, 20, 2$

4. $200, 20, 2$

B 1. $6 \times \underline{9} = 54$

2. $5 \times \underline{3} = 15$

Practice Time 5.7

1. Largest 4-digit number = 9999

$$\begin{array}{r} 999 \overline{) 9999} (10 \\ -999 \downarrow \\ \hline 09 \end{array}$$

Largest 3-digit number = 999

2. Dividend = Divisor $\times$ Quotient + Remainder $Q = 10$

= $68 \times 75 + 39 = 5100 + 39 = 5139$

R = 9

3. Total number of wheels = 168

$$3 \overline{) 168} (56$$

Number of wheels in each tricycle = 3

$$\begin{array}{r} -15 \downarrow \\ \hline 18 \end{array}$$

Number of tricycles = $168 \div 3$

$$\begin{array}{r} -18 \\ \hline 0 \end{array}$$

Therefore, 56 tricycles are there and no wheels is left over

4. Largest 6-digit number = 999999

Largest 2-digit number = 99

$$\begin{array}{r} 99 \overline{) 999999} (10101 \\ -99 \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \\ \hline 099 \\ -99 \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \\ \hline 099 \\ -99 \\ \hline 0 \end{array}$$

Q = 10101

5. Cost of toy car = ₹ 9

Total amount = ₹ 240

Number of toy cars bought = $240 \div 9$

$$\begin{array}{r} 9 \overline{) 240} (26 \\ -18 \downarrow \\ \hline 60 \\ -54 \\ \hline 6 \end{array}$$

Therefore, 26 toy cars can be bought and 6 toy cars were left.

6. Product of two numbers = 35640

One of the number = 216

Second number = $35640 \div 216$

$$\begin{array}{r} 216 \overline{)35640} 165 \\ \underline{-216} \downarrow \\ 1404 \\ \underline{-1296} \downarrow \\ 1080 \\ \underline{-1080} \\ 0 \end{array}$$

Therefore, second number is 165.

7. Cost of each cap = ₹ 47

Total amount = 950

Number of caps = ₹ $950 \div 47$

$$\begin{array}{r} 47 \overline{)950} 20 \\ \underline{-94} \\ 10 \end{array}$$

Therefore, 20 caps are bought and ₹ 10 is left.

8. $84 \overline{)17915} 213$

$$\begin{array}{r} \underline{-168} \downarrow \\ 111 \\ \underline{-84} \downarrow \\ 275 \\ \underline{-252} \\ 23 \end{array}$$

Q = 213

R = 23

Therefore, 23 needs to be subtracted.

9. $214 \overline{)48539} 226$

$$\begin{array}{r} \underline{-428} \downarrow \\ 573 \\ \underline{-428} \downarrow \\ 1459 \\ \underline{-1284} \\ 175 \end{array}$$

Q = 226

R = 175

$\therefore 214 - 175 = 39$

Therefore 39 should be added

10. Smallest 5-digit number = 10000

Therefore, 10,000 is the smallest 5-digit number.

$$\begin{array}{r} 2 \overline{)10000} 5000 \\ \underline{-10} \downarrow \\ 00 \\ \underline{-04} \downarrow \\ 00 \\ \underline{-00} \downarrow \\ 00 \\ \underline{-0} \\ 0 \end{array}$$

CHAPTER - 6

Practice Time 6.1

- A** 1. True 2. False 3. False 4. True
5. True 6. False 7. True 8. False

B 1. Factor are

$$1 \times 60 = 60$$

$$2 \times 30 = 60$$

$$3 \times 20 = 60$$

$$4 \times 15 = 60$$

$$5 \times 12 = 60$$

$$6 \times 10 = 60$$

2. Factor are

$$2 \times 10 = 20$$

$$4 \times 5 = 20$$

$$1 \times 20 = 20$$

3. Factor are

$$2 \times 11 = 22$$

$$1 \times 22 = 22$$

4. Factors are

$$1 \times 84 = 84$$

$$2 \times 42 = 84$$

$$3 \times 28 = 84$$

$$4 \times 21 = 84$$

$$6 \times 14 = 84$$

$$7 \times 12 = 84$$

5. Factors are

$$1 \times 55 = 55$$

$$5 \times 11 = 55$$

6. Factors are

$$1 \times 49 = 49$$

$$7 \times 7 = 49$$

C 1. 42

Factors are

$$1 \times 42 = 42$$

$$2 \times 21 = 42$$

$$3 \times 14 = 42$$

$$6 \times 7 = 42$$

Factors = 1, 2, 3, 6, 7, 14, 21, 42

2. 36

Factors are

$$1 \times 36 = 36$$

$$2 \times 18 = 36$$

$$3 \times 12 = 36$$

$$4 \times 9 = 36$$

Factors = 1, 2, 3, 4, 9, 12, 18, 36, 6

3. 56

Factors are

$$1 \times 56 = 56$$

$$2 \times 28 = 56$$

$$4 \times 14 = 56$$

$$8 \times 7 = 56$$

Factors = 1, 2, 4, 7, 8, 14, 28, 56

4. 81

Factors are

$$1 \times 81 = 81$$

$$3 \times 27 = 81$$

$$9 \times 9 = 81$$

Factors = 1, 3, 9, 27, 81

5. 54

Factors are

$$1 \times 54 = 54$$

$$2 \times 27 = 54$$

$$3 \times 18 = 54$$

$$6 \times 9 = 54$$

Factors = 1, 2, 3, 6, 9, 18, 27, 54

Practice Time 6.2

A 1. 4, 6

Factors of 4 = 1, 2, 4

Factors of 6 = 1, 2, 3, 6

Common factors = 1, 2

2. 25, 30

Factors of 25 = 1, 5, 25

Factors of 30 = 1, 5, 6, 30, 2, 15, 3, 10

Common factors = 1, 5

3. 12, 4

Factors of 12 = 1, 2, 3, 4, 6, 12

Factors of 4 = 1, 2, 4

Common Factors = 1, 2, 4

4. 21, 42

Factors of 21 = 1, 3, 7, 21

Factors of 42 = 1, 2, 21, 3, 14, 6, 7

Common factors = 1, 3, 7, 21

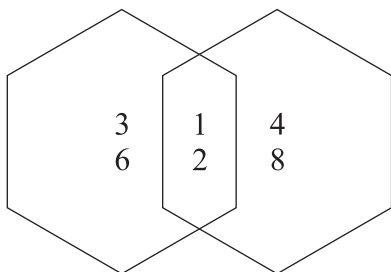
5. 30, 45

Factors of 30 = 1, 2, 15, 3, 10, 5, 6, 30

Factors of 45 = 1, 3, 15, 5, 9, 45

Common factors = 1, 3, 5, 15

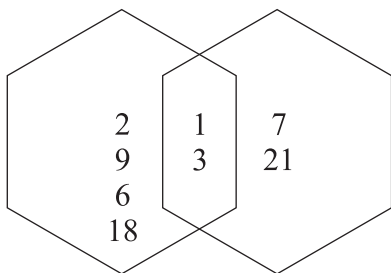
B 1.



Factors of 6 = 1, 2, 3, 6

Factors of 8 = 1, 2, 4, 8

2.



Factors of 18 = 1, 2, 9, 3, 6, 18

Factors of 21 = 1, 3, 7, 21

Practice Time 6.3

A 1. 32, 40, 48, 56, 64

2. 20, 25, 30, 35, 40

3. 44, 55, 66, 77, 88

4. 40, 50, 60, 70, 80

5. 60, 75, 90, 105, 120

6. 16, 20, 24, 28, 32

B. 3, 6, 9, 12, 15, 18, 21, 24, 27, 30

C 1. 3, 6, 9, 12

2. 9, 18, 27, 36

3. 7, 14, 21, 28

4. 20, 40, 60, 80

5. 17, 34, 51, 68

6. 15, 30, 45, 60

7. 13, 26, 39, 52 8. 30, 60, 90, 120
 9. 34, 68, 102, 136 10. 50, 100, 150, 200
D 1. Yes 2. Yes 3. No 4. Yes
E 1. 60, 120 2. 30, 60 3. 15, 30 4. 21, 42
 5. 12, 24 6. 56, 112
F $130 \times 4 = 520$
G 18, 36, 54, 72, 90, 108, 126
H 20, 40, 60, 80, 100
I $892 \times 3 = 2676$

CHAPTER - 7

Practice Time 7.1

A Do it yourself.

B 1. $\frac{2}{6}$ 2. $\frac{4}{6}$ 3. $\frac{3}{4}$ 4. $\frac{2}{9}$

C 1. $\frac{12}{15} \times \frac{3}{3} = \frac{\boxed{36}}{45}$ 2. $\frac{6}{11} \times \frac{6}{6} = \frac{\boxed{36}}{66}$

3. $\frac{3}{8} \times \frac{4}{4} = \frac{\boxed{12}}{32}$ 4. $\frac{16}{19} \times \frac{5}{5} = \frac{\boxed{80}}{95}$

5. $\frac{9}{12} \times \frac{3}{3} = \frac{\boxed{3}}{4}$ 6. $\frac{20}{24} \times \frac{4}{4} = \frac{\boxed{5}}{6}$

D 1. $\frac{5}{9} \times \frac{5}{5} = \frac{25}{45}$ They are equivalent

3. $\frac{3}{5} \times \frac{4}{4} = \frac{12}{20}$ They are Equivalent

6. $\frac{5}{8} \times \frac{3}{3} = \frac{15}{24}$ They are equivalent

E 1. $\frac{2}{3} \times \frac{4}{4} = \frac{8}{12}$ $\frac{2}{3} \times \frac{5}{5} = \frac{10}{15}$ $\frac{2}{3} \times \frac{6}{6} = \frac{12}{18}$

2. $\frac{2}{7} \times \frac{4}{4} = \frac{8}{28}$ $\frac{2}{7} \times \frac{5}{5} = \frac{10}{35}$ $\frac{2}{7} \times \frac{6}{6} = \frac{12}{42}$

3. $\frac{9}{15} \times \frac{4}{4} = \frac{36}{60}$ $\frac{9}{15} \times \frac{5}{5} = \frac{45}{75}$ $\frac{9}{15} \times \frac{6}{6} = \frac{54}{90}$

$$4. \quad \frac{3}{7} \times \frac{4}{4} = \frac{12}{28} \qquad \frac{3}{7} \times \frac{5}{5} = \frac{15}{35} \qquad \frac{3}{7} \times \frac{6}{6} = \frac{18}{42}$$

$$5. \quad \frac{1}{8} \times \frac{4}{4} = \frac{4}{32} \qquad \frac{1}{8} \times \frac{5}{5} = \frac{5}{40} \qquad \frac{1}{8} \times \frac{6}{6} = \frac{6}{48}$$

$$\text{F } 1. \quad \frac{5}{9} \times \frac{9}{9} = \frac{\boxed{45}}{81} \qquad 2. \quad \frac{5}{9} \times \frac{8}{8} = \frac{\boxed{40}}{72}$$

$$3. \quad \frac{5}{9} \times \frac{3}{3} = \frac{\boxed{15}}{27} \qquad 4. \quad \frac{5}{9} \times \frac{8}{8} = \frac{\boxed{40}}{72}$$

$$\text{G } 1. \quad \frac{8}{9} \times \frac{8}{8} = \frac{\boxed{64}}{72} \qquad 2. \quad \frac{32}{36} \times \frac{2}{2} = \frac{\boxed{64}}{72}$$

$$3. \quad \frac{8}{9} \times \frac{8}{8} = \frac{\boxed{64}}{72} \qquad 4. \quad \frac{16}{18} \times \frac{4}{4} = \frac{\boxed{64}}{72}$$

Practice Time 7.2

$$\text{A } \frac{7}{51}$$

$$\text{B } \frac{13}{99}$$

C (1, 2, 3) They have same denominators

D (1, 3, 4) They don't have same denominators

$$\text{E } 1. \quad \frac{9}{14} < \frac{13}{14} \qquad 2. \quad \frac{14}{37} > \frac{13}{37}$$

$$3. \quad \frac{3}{7} < \frac{4}{7} \qquad 4. \quad \frac{13}{21} < \frac{20}{21}$$

$$5. \quad \frac{7}{16} > \frac{5}{16} \qquad 6. \quad \frac{5}{16} < \frac{7}{16}$$

$$\text{F } 1. \quad \frac{4}{27}, \frac{7}{27}, \frac{11}{27}, \frac{16}{27}, \frac{25}{27}$$

$$2. \quad \frac{2}{20}, \frac{7}{20}, \frac{11}{20}, \frac{14}{20}, \frac{16}{20}$$

$$\text{G } 1. \quad \frac{13}{14}, \frac{11}{14}, \frac{9}{14}, \frac{5}{14}, \frac{1}{14}$$

$$2. \quad \frac{8}{11}, \frac{7}{11}, \frac{5}{11}, \frac{3}{11}, \frac{1}{11}$$

Practice Time 7.3

- A**
- $\frac{2}{7} \times 7 = 2$ days
 - $\frac{1}{2} \times 12 = 6$ units
 - $\frac{3}{4} \times 24 = 18$ hours
 - $\frac{1}{5} \times 1000 = 200$ g
 - $\frac{3}{4} \times 60 = 45$ minutes
 - $\frac{3}{12} \times 60 = 15$ minutes

- B**
- $$\begin{array}{r} \frac{10}{3} \quad 3 \overline{)10} \begin{array}{l} 3 \\ -9 \\ \hline 1 \end{array} \\ = 3 \frac{1}{3} \end{array}$$
 - $$\begin{array}{r} \frac{11}{4} \quad 4 \overline{)11} \begin{array}{l} 2 \\ -8 \\ \hline 3 \end{array} \\ = 2 \frac{3}{4} \end{array}$$
 - $$\begin{array}{r} \frac{5}{2} \quad 2 \overline{)5} \begin{array}{l} 2 \\ -4 \\ \hline 1 \end{array} \\ = 2 \frac{1}{2} \end{array}$$
 - $$\begin{array}{r} \frac{16}{5} \quad 5 \overline{)16} \begin{array}{l} 3 \\ -15 \\ \hline 1 \end{array} \\ = 3 \frac{1}{5} \end{array}$$

$$\begin{array}{r} \frac{4}{3} \quad 3 \overline{)4} \begin{array}{l} 1 \\ -3 \\ \hline 1 \end{array} \\ = 1 \frac{1}{3} \end{array}$$

- C**
- $\frac{4}{12} + \frac{3}{12} + \frac{5}{12} = \frac{12}{12} = 1$
 - $\frac{1}{10} + \frac{3}{10} + \frac{4}{10} = \frac{8}{10}$
 - $\frac{11}{12} - \frac{3}{12} = \frac{8}{12}$
 - $\frac{1}{14} + \frac{9}{14} + \frac{2}{14} = \frac{12}{14}$
 - $\frac{8}{10} - \frac{4}{10} = \frac{4}{10}$
 - $\frac{5}{9} + \frac{2}{9} = \frac{7}{9}$
 - $\frac{5}{11} + \frac{4}{11} = \frac{9}{11}$
 - $\frac{4}{6} - \frac{3}{6} = \frac{1}{6}$
 - $\frac{16}{17} - \frac{15}{17} = \frac{1}{17}$

D 1.	$4\frac{3}{2} = \frac{11}{2}$	2.	$2\frac{1}{10} = \frac{21}{10}$
3.	$1\frac{3}{4} = \frac{7}{4}$	4.	$6\frac{3}{10} = \frac{63}{10}$
5.	$3\frac{1}{6} = \frac{19}{6}$	6.	$5\frac{6}{7} = \frac{41}{7}$
7.	$4\frac{3}{8} = \frac{35}{8}$	8.	$1\frac{1}{3} = \frac{4}{3}$
9.	$4\frac{1}{3} = \frac{13}{3}$	10.	$2\frac{2}{3} = \frac{8}{3}$

CHAPTER - 8

Practice Time 8.1

- A**
- 810 cm
 $= 800 \text{ cm} + 10 \text{ cm} = 8 \text{ m} + 10 \text{ cm}$ (As 100 cm = 1 m)
 $= 8 \text{ m } 10 \text{ cm}$
 - 305 cm
 $= 300 \text{ cm} + 5 \text{ cm} = 3 \text{ m} + 5 \text{ cm}$ (As 100 cm = 1 m)
 $= 3 \text{ m } 5 \text{ cm}$
 - 600 cm = 6 m (As 100 cm = 1 m)
 - 730 cm
 $= 700 \text{ cm} + 30 \text{ cm} = 7 \text{ m} + 30 \text{ cm}$ (As 100 cm = 1 m)
 $= 7 \text{ m } 30 \text{ cm}$
 - 275 cm
 $= 200 \text{ cm} + 75 \text{ cm} = 2 \text{ m} + 75 \text{ cm}$ (As 100 cm = 1 m)
 $= 2 \text{ m } 75 \text{ cm}$
 - 200 cm = 2 m (As 100 cm = 1 m)
- B**
- 7 m 80 cm = 7 m + 80 cm
 $= 7 \times 100 \text{ cm} + 80 \text{ cm}$ (As 1 m = 100 cm)
 $= 700 \text{ cm} + 80 \text{ cm} = 780 \text{ cm}$
 - 9 m
 $= 9 \times 100 \text{ cm}$ (As 1 m = 100 cm) (As 1 m = 100)
 $= 900 \text{ cm}$

$$\begin{aligned}
 3. \quad & 8 \text{ m } 20 \text{ cm} \\
 &= 8 \text{ m} + 20 \text{ cm} \\
 &= 8 \times 100 \text{ cm} + 20 \text{ cm} \quad (\text{As } 1 \text{ m} = 100) \\
 &= 800 \text{ cm} + 20 \text{ cm} = 820 \text{ cm}
 \end{aligned}$$

$$\begin{aligned}
 4. \quad & 5 \text{ m } 24 \text{ cm} \\
 &= 5 \text{ m} + 24 \text{ cm} \\
 &= 5 \times 100 \text{ cm} + 24 \text{ cm} \quad (\text{As } 1 \text{ m} = 100) \\
 &= 500 \text{ cm} + 24 \text{ cm} = 524 \text{ cm}
 \end{aligned}$$

$$\begin{aligned}
 5. \quad & 1 \text{ m } 95 \text{ cm} \\
 &= 1 \text{ m} + 95 \text{ cm} \\
 &= 1 \times 100 \text{ cm} + 95 \text{ cm} \quad (\text{As } 1 \text{ m} = 100) \\
 &= 100 \text{ cm} + 95 \text{ cm} = 195 \text{ cm}
 \end{aligned}$$

$$\begin{aligned}
 6. \quad & 4 \text{ m} = 4 \times 100 \text{ cm} \quad (\text{As } 1 \text{ m} = 100) \\
 &= 400 \text{ cm}
 \end{aligned}$$

C

$$\begin{aligned}
 1. \quad & 8345 \text{ g} = 8000 \text{ g} + 345 \text{ g} \\
 &= 8 \text{ kg} + 345 \text{ g} \quad (\text{As } 1000 \text{ g} = 1 \text{ kg}) \\
 &= 8 \text{ kg } 345 \text{ g} \\
 2. \quad & 3600 \text{ g} = 3000 \text{ g} + 600 \text{ g} \\
 &= 3 \text{ kg} + 600 \text{ g} \quad (\text{As } 1000 \text{ g} = 1 \text{ kg}) \\
 &= 3 \text{ kg } 600 \text{ g} \\
 3. \quad & 2710 \text{ g} = 2000 \text{ g} + 710 \text{ g} \quad (\text{As } 1000 \text{ g} = 1 \text{ kg}) \\
 &= 2 \text{ kg} + 710 \text{ g} = 2 \text{ kg } 710 \text{ g} \\
 4. \quad & 9925 \text{ g} = 9000 \text{ g} + 925 \text{ g} \\
 &= 9 \text{ kg} + 925 \text{ g} = 9 \text{ kg } 925 \text{ g} \\
 5. \quad & 3900 \text{ g} = 3000 \text{ g} + 900 \text{ g} \\
 &= 3 \text{ kg} + 900 \text{ g} \quad (\text{As } 1000 \text{ g} = 1 \text{ kg}) \\
 &= 3 \text{ kg } 900 \text{ g} \\
 6. \quad & 3700 \text{ g} = 3000 \text{ g} + 700 \text{ g} \\
 &= 3 \text{ kg} + 700 \text{ g} \quad (\text{As } 1000 \text{ g} = 1 \text{ kg}) \\
 &= 3 \text{ kg } 700 \text{ g}
 \end{aligned}$$

7. $4799\text{g} = 4000\text{g} + 799\text{g}$
 $= 4\text{kg} + 799\text{g}$ (As $1000\text{g} = 1\text{ kg}$)
 $= 4\text{ kg } 799\text{ g}$
8. $3964\text{g} = 3000\text{ g} + 946\text{ g}$
 $= 3\text{ kg} + 946\text{ g}$ (As $1000\text{g} = 1\text{ kg}$)
 $= 3\text{ kg } 946\text{ g}$
9. $4200\text{ g} = 4000\text{g} + 200\text{g}$
 $= 4\text{ kg} + 200\text{g}$ (As $1000\text{g} = 1\text{ kg}$)
 $= 4\text{ kg } 200\text{ g}$
10. $5470\text{ g} = 5000\text{g} + 470\text{ g}$
 $= 5\text{ kg} + 470\text{ g}$ (As $1000\text{g} = 1\text{ kg}$)
 $= 5\text{ kg } 470\text{ g}$

- D**
1. $6652\text{ m} = 6000\text{ m} + 652\text{ m}$
 $= 6\text{ km} + 652\text{ m} = 6\text{ km } 652\text{ m}$
 2. $9007\text{ m} = 9000\text{ m} + 7\text{ m}$
 $= 9\text{ km} + 7\text{ m} = 9\text{ km } 7\text{ m}$
 3. $5621\text{ m} = 5000\text{ m} + 621\text{ m}$
 $= 5\text{ km} + 621\text{ m} = 5\text{ km } 621\text{ m}$
 4. $9373\text{ m} = 9000\text{ m} + 373\text{ m}$
 $= 9\text{ km} + 373\text{ m} = 9\text{ km } 373\text{ m}$
 5. $8465\text{ m} = 8000\text{ m} + 465\text{ m}$
 $= 8\text{ km} + 465\text{ m} = 8\text{ km } 465\text{ m}$
 6. $9580\text{ m} = 9000\text{ m} + 580\text{ m}$
 $= 9\text{ km} + 580\text{ m} = 9\text{ km } 580\text{ m}$
 7. $9370\text{ m} = 9000\text{ m} + 370\text{ m}$
 $= 9\text{ km} + 370\text{ m} = 9\text{ km } 370\text{ m}$
 8. $2760\text{ m} = 2000\text{ m} + 760\text{ m}$
 $= 2\text{ km} + 760\text{ m} = 2\text{ km } 760\text{ m}$
 9. $6240\text{ m} = 6000\text{ m} + 240\text{ m}$
 $= 6\text{ km} + 240\text{ m} = 6\text{ km } 240\text{ m}$
 10. $1097\text{ m} = 1000\text{ m} + 97\text{ m}$
 $= 1\text{ km} + 97\text{ m} = 1\text{ km } 97\text{ m}$

- E**
1. $9895 \text{ ml} = 9000 \text{ ml} + 895 \text{ ml}$
 $= 9 \text{ l} + 895 \text{ ml} = 9 \text{ l } 895 \text{ ml}$
 2. $3000 \text{ ml} = 3 \text{ l}$ (As $1000 \text{ ml} = 1 \text{ l}$)
 3. $7570 \text{ ml} = 7000 + 570 \text{ ml}$
 $= 7 \text{ l} + 570 \text{ ml} = 7 \text{ l } 570 \text{ ml}$ (As $1000 \text{ ml} = 1 \text{ l}$)
 4. $8365 \text{ ml} = 8000 \text{ ml} + 365 \text{ ml}$
 $= 8 \text{ l} + 365 \text{ ml}$ (As $1000 \text{ ml} = 1 \text{ l}$)
 5. $8750 \text{ ml} = 8000 \text{ ml} + 750 \text{ ml}$
 $= 8 \text{ l} + 750 \text{ ml}$ (As $1000 \text{ ml} = 1 \text{ l}$)
 6. $4790 \text{ ml} = 4000 \text{ ml} + 790 \text{ ml}$
 $= 4 \text{ l} + 790 \text{ ml} = 4 \text{ l } 790 \text{ ml}$
 7. $3465 \text{ ml} = 3000 \text{ ml} + 465 \text{ ml}$
 $= 3 \text{ l} + 465 \text{ ml} = 3 \text{ l } 465 \text{ ml}$
 8. $2500 \text{ ml} = 2000 \text{ ml} + 500 \text{ ml}$
 $= 2 \text{ l} + 500 \text{ ml}$ (As $1000 \text{ ml} = 1 \text{ l}$)
 $= 2 \text{ l } 500 \text{ ml}$
 9. $6250 \text{ ml} = 6000 \text{ ml} + 250 \text{ ml}$
 $= 6 \text{ l} + 250 \text{ ml} = 6 \text{ l } 250 \text{ ml}$
 10. $6240 \text{ ml} = 6000 \text{ ml} + 240 \text{ ml}$
 $= 6 \text{ l} + 240 \text{ ml} = 6 \text{ l } 240 \text{ ml}$
- F**
1. $7580 \text{ l} = 7000 \text{ l} + 580 \text{ l}$
 $= 7 \text{ kl} + 580 \text{ l}$
 $= 7 \text{ kl } 580 \text{ l}$
 2. $1340 \text{ l} = 1000 \text{ l} + 340 \text{ l}$
 $= 1 \text{ kl} + 340 \text{ l}$ (As $1000 \text{ l} = 1 \text{ kl}$)
 3. $8007 \text{ l} = 8000 \text{ l} + 7 \text{ l}$
 $= 8 \text{ kl} + 7 \text{ l}$ (As $1000 \text{ l} = 1 \text{ kl}$)
 $= 8 \text{ kl } 7 \text{ l}$
 4. $9005 \text{ l} = 9000 \text{ l} + 5 \text{ l}$
 $= 9 \text{ kl} + 5 \text{ l}$ (As $1000 \text{ l} = 1 \text{ kl}$)

5. $4534\text{ l} = 4000\text{ l} + 534\text{ l}$
 $= 4\text{ kl} + 534\text{ l}$ (As $1000\text{ l} = 1\text{ kl}$)
 $= 4\text{ kl } 534\text{ l}$
6. $2347\text{ l} = 2000\text{ l} + 347\text{ l}$
 $= 2\text{ kl} + 347\text{ l}$ (As $1000\text{ l} = 1\text{ kl}$)
7. $9078\text{ l} = 9000\text{ l} + 78\text{ l}$
 $= 9\text{ kl} + 78\text{ l}$ (As $1000\text{ l} = 1\text{ kl}$)
 $= 9\text{ kl } 78\text{ l}$
8. $6450\text{ l} = 6000\text{ l} + 450\text{ l}$
 $= 6\text{ kl} + 450\text{ l}$ (As $1000\text{ l} = 1\text{ kl}$)
 $= 6\text{ kl } 450\text{ l}$
9. $7800\text{ l} = 7000\text{ l} + 800\text{ l}$
 $= 7\text{ kl} + 800\text{ l}$ (As $1000\text{ l} = 1\text{ kl}$)
 $= 7\text{ kl } 800\text{ l}$
10. $5090\text{ l} = 5000\text{ l} + 90\text{ l}$
 $= 5\text{ kl} + 90\text{ l}$ (As $1000\text{ l} = 1\text{ kl}$)
 $= 5\text{ kl } 90\text{ l}$

Practice Time 8.2

- A 1. 3 km 456 m and 8 km 884 m

km	m
3	456
+8	884
<u>12</u>	<u>340</u>

Ans. 12km 340 m

2.

km	m
25	836
18	92
+17	9
<u>60</u>	<u>937</u>

Ans. 60 km 937 m.

3.

m	cm
15	81
+18	95
<u>34</u>	<u>76</u>

Ans. 34 m 76 cm.

$$\begin{array}{r}
 \text{4.} \quad \begin{array}{r} \text{km} \quad \text{m} \\ 8 \quad 725 \\ 6 \quad 242 \\ +9 \quad 39 \\ \hline 24 \quad 556 \end{array}
 \end{array}$$

Ans. 24 km 556 m

$$\begin{array}{r}
 \text{5.} \quad \begin{array}{r} \text{l} \quad \text{ml} \\ \quad 568 \\ \quad 276 \\ +2 \quad 725 \\ \hline 3 \quad 569 \end{array}
 \end{array}$$

Ans. 3 l 569 ml

$$\begin{array}{r}
 \text{6.} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 13 \quad 38 \\ +1 \quad 62 \\ \hline 15 \quad 00 \end{array}
 \end{array}$$

Ans. 15 m

$$\begin{array}{r}
 \text{7.} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ \quad 6 \quad 38 \\ +8 \quad 08 \\ \hline 14 \quad 46 \end{array}
 \end{array}$$

Ans. 14 m 46 cm

$$\begin{array}{r}
 \text{8.} \quad \begin{array}{r} \text{l} \quad \text{ml} \\ 25 \quad 200 \\ +17 \quad 500 \\ \hline 42 \quad 700 \end{array}
 \end{array}$$

Ans. 42 l 700 ml

$$\begin{array}{r}
 \text{9.} \quad \begin{array}{r} \text{l} \quad \text{ml} \\ 21 \quad 500 \\ +15 \quad 300 \\ \hline 36 \quad 800 \end{array}
 \end{array}$$

Ans. 36 l 800 ml

$$\begin{array}{r}
 \text{10.} \quad \begin{array}{r} \text{l} \quad \text{ml} \\ 14 \quad 950 \\ +7 \quad 50 \\ \hline 22 \quad 000 \end{array}
 \end{array}$$

Ans. 22 l

$$\begin{array}{r}
 \text{11.} \quad \begin{array}{r} \text{l} \quad \text{ml} \\ \quad 8 \quad 375 \\ +4 \quad 86 \\ \hline 12 \quad 461 \end{array}
 \end{array}$$

Ans. 12 l 461 ml

$$\begin{array}{r}
 \text{12.} \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 5 \quad 27 \\ +5 \quad 85 \\ \hline 11 \quad 12 \end{array}
 \end{array}$$

Ans. 11 m 12 cm

$$\begin{array}{r}
 \text{13.} \quad \begin{array}{r} \text{kg} \quad \text{g} \\ 15 \quad 380 \\ +20 \quad 475 \\ \hline 35 \quad 855 \end{array}
 \end{array}$$

Ans. 35 kg 855 g

$$\begin{array}{r}
 \text{14.} \quad \begin{array}{r} \text{kg} \quad \text{g} \\ 78 \quad 60 \\ +12 \quad 320 \\ \hline 90 \quad 380 \end{array}
 \end{array}$$

Ans. 90 kg 380 g

$$\begin{array}{r} \text{B 1. km m} \\ 9 \quad 022 \\ -4 \quad 720 \\ \hline 4 \quad 302 \end{array}$$

Ans. 4 km 302 m

$$\begin{array}{r} \text{3. l ml} \\ 90 \quad 070 \\ -81 \quad 290 \\ \hline 08 \quad 780 \end{array}$$

Ans. 8 l 780 ml

$$\begin{array}{r} \text{5. l ml} \\ 121 \quad 000 \\ -55 \quad 340 \\ \hline 65 \quad 660 \end{array}$$

Ans. 65 l 660 ml

$$\begin{array}{r} \text{7. l ml} \\ 14 \quad 100 \\ -8 \quad 350 \\ \hline 5 \quad 750 \end{array}$$

Ans. 5 l 750 ml

$$\begin{array}{r} \text{9. km m} \\ 46 \quad 215 \\ -12 \quad 457 \\ \hline 33 \quad 758 \end{array}$$

Ans. 33 km 758 m

$$\begin{array}{r} \text{11. km m} \\ 21 \quad 103 \\ -5 \quad 159 \\ \hline 15 \quad 944 \end{array}$$

Ans. 15 km 944 m

$$\begin{array}{r} \text{2. kg g} \\ 30 \quad 008 \\ -17 \quad 525 \\ \hline 12 \quad 483 \end{array}$$

Ans. 12 kg 483 g

$$\begin{array}{r} \text{4. l ml} \\ 26 \quad 125 \\ -15 \quad 750 \\ \hline 10 \quad 375 \end{array}$$

Ans. 10 l 375 ml

$$\begin{array}{r} \text{6. m cm} \\ 18 \quad 34 \\ -9 \quad 81 \\ \hline 8 \quad 53 \end{array}$$

Ans. 8 m 53 cm

$$\begin{array}{r} \text{8. km m} \\ 200 \quad 000 \\ -132 \quad 390 \\ \hline 067 \quad 610 \end{array}$$

Ans. 67 km 610 m

$$\begin{array}{r} \text{10. m cm} \\ 12 \quad 40 \\ -8 \quad 60 \\ \hline 3 \quad 80 \end{array}$$

Ans. 3 m 80 cm

$$\begin{array}{r} \text{12. m cm} \\ 8 \quad 25 \\ -4 \quad 75 \\ \hline 3 \quad 50 \end{array}$$

Ans. 3 m 50 cm

$$\begin{array}{r}
 13. \quad \begin{array}{r} 1 \text{ ml} \\ 25 \text{ } 900 \\ -12 \text{ } 700 \\ \hline 13 \text{ } 200 \end{array}
 \end{array}$$

Ans. 13 l 200 ml

$$\begin{array}{r}
 14. \quad \begin{array}{r} \text{kg} \quad \text{g} \\ 80 \text{ } 090 \\ -75 \text{ } 100 \\ \hline 04 \text{ } 990 \end{array}
 \end{array}$$

Ans. 4 kg 990 g

CHAPTER - 9

Practice Time 9.1

- A**
- Perimeter = Sum of all sides
 $= 10 \text{ cm} + 20 \text{ cm} + 9 \text{ cm} = 39 \text{ cm}$
 - Perimeter = $4 \text{ cm} + 8 \text{ cm} + 4 \text{ cm} + 8 \text{ cm} = 24 \text{ cm}$
 - Perimeter = $7 \text{ cm} + 3 \text{ cm} + 7 \text{ cm} + 3 \text{ cm} = 20 \text{ cm}$
 - Perimeter = $2 \text{ cm} + 2 \text{ cm} + 5 \text{ cm} + 5 \text{ cm} = 14 \text{ cm}$
 - Perimeter = $1 \text{ cm} + 5 \text{ cm} + 1 \text{ cm} + 2 \text{ cm} + 5 \text{ cm} + 2 \text{ cm} + 1 \text{ cm} + 5 \text{ cm} + 1 \text{ cm} + 2 \text{ cm} + 5 \text{ cm} + 2 \text{ cm} = 32 \text{ cm}$

- B** 1. 16 cm 2. 20 cm 3. 16 cm 4. 14 cm

- C** 1. Perimeter = $A + 4 + 9 + 8$

$$28 = A + 21$$

$$28 - 21 = A$$

$$A = 7 \text{ cm}$$

2. Perimeter = $A + 5 + 2 + 8$

$$23 = A + 15$$

$$23 - 15 = A$$

$$8 \text{ cm} = A$$

3. Perimeter = $A + 10 + 2$

$$28 = A + 22$$

$$A = 28 - 22$$

$$A = 6 \text{ cm}$$

Practice Time 9.2

- A** 1. Area of stamp = $7 \times 3 = 21 \text{ cm}^2$

$$\text{Perimeter} = 20 \text{ cm}$$

$$2. \text{ Area of stamp} = 7 \times 4 = 28 \text{ cm}^2$$

$$\text{Perimeter} = 22 \text{ cm}$$

$$3. \text{ Area of Stamp} = 4 \times 4 = 16 \text{ cm}^2$$

$$\text{Perimeter} = 16 \text{ cm}$$

$$\text{B } 1. 21 \text{ cm}^2$$

$$2. 20 \text{ cm}^2$$

$$3. 18 \text{ cm}^2$$

$$4. 15 \text{ cm}^2$$

Practice Time 9.3

Do it yourself

Practice Time 9.4

$$1. \text{ Fencing of the garden} = \text{Perimeter}$$

$$\text{Perimeter} = 12 \text{ cm} + 18 \text{ cm} + 25 \text{ cm} = 55 \text{ cm}$$

Therefore, garden needs 55 cm of fencing

$$2. \text{ Perimeter of the field} = 2(l + b)$$

$$= 2(32 + 18) = 2(50) = 100 \text{ m}$$

$$3. \text{ Length of the room} = 20 \text{ m}$$

$$\text{Breath of the room} = 18 \text{ m}$$

$$\text{Perimeter of the room} = 2(l + b)$$

$$= 2(20 + 18) = 2 \times 38 = 76 \text{ m}$$

$$4. \text{ Length of the pool} = 30 \text{ m}$$

$$\text{Breath of the pool} = 22 \text{ m}$$

$$\text{Perimeter of the pool} = 2(l + b)$$

$$= 2(30 + 22) = 2 \times 52 = 104 \text{ m}$$

$$\text{Fencing} = 104 \text{ m} - 10 \text{ m} = 94 \text{ m.}$$

$$5. \text{ Side of the flower bed} = 80 \text{ m}$$

$$\text{Perimeter} = 4 \times \text{side}$$

$$= 4 \times \text{side} = 4 \times 80 = 320 \text{ m}$$

$$\text{Perimeter} = \text{Fencing of the flower bed}$$

$\therefore$ Fencing of the flower bed is 320 m.

CHAPTER - 10

Practice Time 10.1

A 1, 2, 3, 5 are simple closed curves.

B 3, 4, 5, 6, 7, 8 are polygons.

C 2, 4 are triangles.

D 1, 4 are quadrilaterals.

Practice Time 10.2

A Do it yourself.

B 1. P 2. AB 3. LM 4. PQ, AP, PB

C Do it yourself

D 1. Radius = $12/2 = 6$ cm 2. Radius = $10/2 = 5$ cm

3. Radius = $8/2 = 4$ cm 4. Radius = $50/2 = 25$ cm

E 1. Chord 2. Diameter 3. r, R

4. circle 5. Radius

Practice Time 10.3

Do it yourself

CHAPTER - 11

Practice Time 11.1

A 1. 51, 44, 37, 30, 23, 16, 9

2. 54, 51, 48, 45, 42, 39, 36

3. 7, 9, 11, 13, 15, 17, 19

4. 13, 16, 19, 22, 25, 28, 31

B 1. 9, 90, 900 2. 3, 30, 300

3. 5, 50, 500

CHAPTER - 12

Practice Time 12.1

A 1. 1 : 49

2. 10 : 11

3. 6 : 45

B Do it yourself.

C 1. 31 minutes after 9 hours

2. 20 minutes before 3

3. 20 minutes after 6

4. 10 minutes before 6

Practice Time 12.2

- A** 1. 2 : 45 am 2. 1 : 10 pm
3. 4 : 32 pm 4. 10 pm
- B** 1. 6 am 2. 2 pm 3. 7:15 am
4. 5 pm 5. 4 pm 6. 8 pm
- C** 1. 7:30 am 2. 8: 15 am 3. 8:30 pm
4. 7: 30 pm 5. 6:30 am
- D** 1. 8 : 05 am 2. 1 : 20 am 3. 12 : 05 pm
4. 4:40 am 5. 11 pm 6. 1 : 00 am

Practice Time 12.3

- A** 1. 14:25 hours 2. 23:45 hours
3. 20:15 hours 4. 08:15 hours
5. 07:10 hours 6. 17:05 hours
- B** 1. According to 24 hour clock, train time at = 15 : 00 hours
2. According to 24 hour clock = 23:15 hours
3. Time on which train is supposed to arrive is 19:40 hours
Actual Arrival time of train = 18 : 40 hours = 1 hour
4. Departure time = 7 : 20 am
Arrival time = 1 : 50 pm

Practice Time 12.4

- A** 1. 8:45 pm to 9:45 pm = 1 hr
9:45 pm to 10:25 pm = 40 min
Ans. 1 hr 40 min
2. 11:40 am to 12:10 pm = 30 minutes
3. 9:15 pm to 10:15 pm = 1 hr
10:15 pm to 11:15 pm = 1 hr
11:15 pm to 12:15 am = 1 hr
12:15 pm to 12:20 am = 5 min
Ans. 3 hrs 5 min

4. 6:50 pm to 7:00 pm = 10 min
 7 pm to 8 pm = 1 hr 8 pm to 9 pm = 1 hr
 9 pm to 10 pm = 1 hr 10 pm to 11 pm = 1 hr
 11 pm to 12 am = 1 hr 12 am to 1 am = 1 hr
 1 am to 2 am = 1 hr 2:00 am to 2:30 am = 30 min

Ans. 7 hrs 40 minutes

5. 12 midnight to 5 pm = 17 hours

6. 4:40 am to 4:40 pm = 12 hours

- B** 1. 3:15 am + 10 minutes = 3:25 am

2. 11:25 pm + 20 minutes = 11:45 pm

3. 6:40 pm + 50 minutes
 = 6:40 pm + 20 minutes + 30 minutes
 = 7 pm + 30 minutes = 7:30 pm

4. 11:20 am + 2 hrs 20 minutes = 1:40 pm

5. 11:45 am + 3 hrs 40 minutes = 3:25 pm

- C** 1. Starting time = 6:15 am

Finishing time = 2:25 pm

6:15 am 7:15 am 8:15 am 9:15 am

10:15 am 11:15 am 12:15 pm 1:15 pm

2:15 pm 2:25 pm = 8 hours 10 minutes

2. Starting time = 1:15 pm

finishing time = 1:15 pm + 1 hr 20 minutes

= 2:35 pm

3. Sun rises at 5:18 am

sun sets at = 6:30 pm

length of the day

5:18 am 6:18 am 7:18 am 8:18 am

9:18 am 10:18 am 11:18 am 12:18 pm

1:18 pm 2:18 pm 3:18 pm 4:18 pm

5:18 pm 6:18 pm 6:30 pm

= 13 hours 12 minutes

4. Starting time = 11:20 am
 Finishing time = 4:20 pm
 Duration
 11:20 am 12:20 am 1:20am 2: 20 am
 3 : 20 am 4:20 am Duration = 5 hours
5. Starting time = 11:45 am
 Finishing time = 1:45 pm
 Length of the play
 11:15 am 12:45 pm 1:45 pm = 2 hours
6. Starting time = 12:30 pm
 Duration = 45 minutes
 Finishing time = 12:30 pm + 45 minutes
 = 12:30 pm + 30 minutes + 15 minutes
 = 1 pm + 15 minutes
 = 1:15 pm
7. Starting time = 10 : 15 am
 Finishing time = 3:50 pm
 Duration
 10:15 am 11:15 am 12:15 pm 1:15 m
 2:15 pm 3:15 pm 3:50 pm
 = 5 hours 35 minutes
8. Starting time = 11:30 am
 Duration = 2 hours 50 minutes
 Finishing time = 11:30 am + 2 hours + 50 minutes
 = 1:30 am + 50 minutes
 = 1:30 pm + 30 minutes + 20 minutes
 = 2 pm + 20 minutes = 2 : 20 pm

Practice Time 12.5

- A** 1. Days in May = 9 days
 Days in June = 30 days
 Days in July = 2 days = 30 + 9 + 2 = 41 days

2. Teacher's Day = 5 sept
 Children's day = 14 Nov Days in Sept = 25 days
 Days in Oct = 31 days Days in Nov = 13 days
 $= 25 + 31 + 13 = 69$ days
 3. Days in october = 10 days
 Days in Nov = 30 days
 Days in December = 9 days = $10 + 30 + 9 = 49$ days
 4. Days in March = 15 days
 Days in April = 30 days Days in May = 10 days
 $= 30 + 15 + 10 = 55$ days
- B**
1. Days in February = 21 days
 Days in March = 10 days = $21 + 10 = 31$ days
 2. Days from 4 march to 28 March = 25 days
 3. Starting time = 5: 25 pm
 Finishing time = 7:20 pm
 Duration
 $5:25 \text{ pm} \quad 6:25 \text{ pm} \quad 7:00 \text{ pm} \quad 20 \text{ minutes}$
 $= 1 \text{ hours } 55 \text{ minutes}$
 4. Duration of the camp = 21 days
 Finishing date = 30 th May
 Starting date = 10th May
 5. Winter break = 14 days
 Joining date = 4th january
 Last working day = 21st December
 6. 23rd August to 17th September
 Days in August = 9 days
 Days in Sept. = 17 days
 Number of days Vaibhav was absent = 26 days
 7. Returned date = 7th Sept
 Borrowing date = 12 August
 Number of days in August = 20 days

Number of days in Sept = 6 days = 26 days

CHAPTER - 13

Practice Time 13.1

- A**
1. 4 notes of ₹ 500 = $4 \times 500 = 2000$
3 notes ₹ 50 = $3 \times 50 = 150$
4 coins ₹ 5 = $4 \times 5 = 20$
Total Amount = ₹ 2170
 2. 4 notes of ₹ 100 = $4 \times 100 = 400$
2 notes ₹ 500 = $2 \times 500 = 1000$
10 notes ₹ 10 = $10 \times 10 = 100$
Total Amount = ₹ 1500
 3. 4 notes of ₹ 500 = $4 \times 500 = 2000$
2 notes ₹ 100 = $2 \times 100 = 200$
10 notes ₹ 20 = $10 \times 20 = 200$
Total Amount = ₹ 2400
 4. 2 notes of ₹ 2000 = $2 \times 2000 = 4000$
2 notes ₹ 500 = $2 \times 500 = 1000$
2 notes ₹ 50 = $2 \times 50 = 100$
Total Amount = ₹ 5100
 5. 8 notes of ₹ 100 = $8 \times 100 = 800$
5 notes ₹ 10 = $5 \times 10 = 50$
6 coins ₹ 2 = $6 \times 2 = 12$
8 coins of ₹ 1 = $8 \times 1 = 8$
Total Amount = ₹ 870
- B**
1. ₹ 50 + ₹ 10 + ₹ 5 + ₹ 2 = ₹ 67
 2. ₹ 50 + ₹ 20 + ₹ 3 = ₹ 73
 3. ₹ 10 + ₹ 5 + 50p = 15.50 p
 4. ₹ 100 + ₹ 5 + 50p = 105.50p
 5. ₹ 40 + ₹ 4 + 50p = 44.50p
 6. ₹ 20 + ₹ 10 + ₹ 5 + ₹ 1 = ₹ 36

- C** 1. $3 \times ₹ 500 + 2 \times ₹ 100 + 6 \times ₹ 10 + 2 \times ₹ 5$
 $= ₹ 1500 + 200 + 60 + 10 = ₹ 1770$
2. Amount with Riya $= 20 \times ₹ 5 = ₹ 100$
Amount with Shikha $= 12 \times ₹ 10 = ₹ 120$
Shikha has more money $= 120 - ₹ 100 = ₹ 20$
3. $= 3 \times ₹ 20 + 4 \times ₹ 5 + 5 \times ₹ 50$
 $= ₹ 60 + ₹ 20 + ₹ 250 = ₹ 330$
4. $5 \times ₹ 5 + 5 \times ₹ 2 = ₹ 25 + ₹ 10 = ₹ 35$

Practice Time 13.2

A 1. ₹ P

18	35
+29	83
48	18

Ans. ₹ 48.18

3. ₹ P

40	35
57	20
+55	30
152	85

Ans. 152.85

5. ₹ P

55	60
46	10
+24	75
126	45

Ans. ₹ 256.80

B 1. ₹ P

75	25
-38	40
36	85

Ans. ₹ 36.85

2. ₹ P

439	80
+348	75
788	55

Ans. ₹ 788.55

4. ₹ P

56	75
123	80
+76	25
256	80

Ans. ₹ 256.80

6. ₹ P

800	80
89	70
+100	00
990	50

Ans. ₹ 990.50

2. ₹ P

90	56
-76	50
14	06

Ans. ₹ 14.06

$$\begin{array}{r}
 \text{3.} \quad \text{₹} \quad \text{P} \\
 897.20 \\
 -665.70 \\
 \hline
 231.50
 \end{array}$$

Ans. 231.50

$$\begin{array}{r}
 \text{4.} \quad \text{₹} \quad \text{P} \\
 668.95 \\
 -457.40 \\
 \hline
 211.55
 \end{array}$$

Ans. 211.55

$$\begin{array}{r}
 \text{5.} \quad \text{₹} \quad \text{P} \\
 243.50 \\
 -132.25 \\
 \hline
 111.25
 \end{array}$$

Ans. ₹ 111.25

$$\begin{array}{r}
 \text{6.} \quad \text{₹} \quad \text{P} \\
 310.70 \\
 -273.40 \\
 \hline
 37.30
 \end{array}$$

Ans. ₹ 37.30

C 1. Cost of bat = ₹ 415.50 Cost of ball = ₹ 75.55

Total amount paid for both = ₹ 415.50 + 75.55

$$\begin{array}{r}
 \text{₹} \quad \text{P} \\
 415.50 \\
 +75.55 \\
 \hline
 491.05
 \end{array}$$

Therefore, ₹ 491.05 is paid for both the items.

2. Total Amount with Aanya = ₹ 115.50

Amount paid to Priyanka = ₹ 76.20

Amount left with Aanya = ₹ 115.50 – ₹ 76.20

$$\begin{array}{r}
 \text{₹} \quad \text{P} \\
 115.50 \\
 -76.20 \\
 \hline
 39.30
 \end{array}$$

Therefore, ₹ 39.30 is left with Aanya

3. Kiara's Spendings = ₹ 325.50

Deepa's spendings = ₹ 403.15

Deepa's spends more by

₹ 403.15 – 325.50

$$\begin{array}{r}
 \text{₹} \quad \text{P} \\
 403.15 \\
 -325.50 \\
 \hline
 77.65
 \end{array}$$

Therefore, ₹ 77.65 is more spend by Deepa money spend on book.

4. Money given to shopkeeper = ₹ 100

Money received by Sneha = ₹ 100 – 59.25

$$\begin{array}{r} \text{₹} \quad \text{P} \\ 100 \quad 00 \\ -59 \quad 25 \\ \hline 40 \quad 75 \end{array}$$

Therefore, Sneha received ₹ 40.75 as change.

5. Money spend on book = ₹ 87.00

Money spend on pen = ₹ 25.25

Money spend on water colours = ₹ 130.90

Money given to shopkeeper = ₹ 500

Money received as change = ₹ 500 – (₹ 87.00 + 25.25 + 130.90)

$$\begin{array}{r} \text{₹} \quad \text{P} \\ 87 \quad 00 \\ 25 \quad 25 \\ +130 \quad 90 \\ \hline 243 \quad 15 \end{array} \qquad \begin{array}{r} \text{₹} \quad \text{P} \\ 500 \quad 00 \\ -243 \quad 15 \\ \hline 256 \quad 85 \end{array}$$

Therefore, Nancy received 256.85 as change

$$\begin{array}{r} \text{6. Sum} \quad \text{₹} \quad \text{P} \qquad \text{Difference} \quad \text{₹} \quad \text{P} \\ 576 \quad 40 \qquad 764 \quad 90 \\ +188 \quad 50 \qquad -245 \quad 50 \\ \hline 764 \quad 90 \qquad 519 \quad 40 \end{array}$$

Ans. ₹ 519.40

Practice Time 13.3

A 1.
$$\begin{array}{r} \text{₹} \quad \text{P} \\ 476 \quad 45 \\ \times 2 \\ \hline 952 \quad 90 \end{array}$$

Ans. ₹ 952.90

2.
$$\begin{array}{r} \text{₹} \quad \text{P} \\ 789 \quad 30 \\ \times 5 \\ \hline 3946 \quad 50 \end{array}$$

Ans. ₹ 3946.50

$$\begin{array}{r}
 3. \quad \begin{array}{r} \text{₹} \quad \text{P} \\ 48 \quad 09 \\ \times \quad 13 \\ \hline 144 \quad 27 \\ + 480 \quad 9 \times \\ \hline 625 \quad . \quad 17 \end{array}
 \end{array}$$

Ans. ₹ 625.17

$$\begin{array}{r}
 4. \quad \begin{array}{r} \text{₹} \quad \text{P} \\ 18 \quad 75 \\ \times 9 \\ \hline 168 \quad 75 \end{array}
 \end{array}$$

Ans. ₹ 168.75

$$\begin{array}{r}
 5. \quad \begin{array}{r} \text{₹} \quad \text{P} \\ 13 \quad 83 \\ \times 6 \\ \hline 82 \quad 98 \end{array}
 \end{array}$$

Ans. ₹ 82.98

$$\begin{array}{r}
 6. \quad \begin{array}{r} \text{₹} \quad \text{P} \\ 46 \quad 75 \\ \times 8 \\ \hline 374 \quad 00 \end{array}
 \end{array}$$

Ans. ₹ 374

B 1. $8 \overline{)482.48} (60.31$

$$\begin{array}{r}
 \underline{-48} \downarrow \downarrow \\
 24 \downarrow \\
 \underline{-24} \downarrow \\
 08 \\
 \underline{-8} \\
 0
 \end{array}$$

Ans. ₹ 60.31

2. $2 \overline{)48.60} (24.30$

$$\begin{array}{r}
 \underline{-4} \downarrow \downarrow \\
 08 \downarrow \\
 \underline{-8} \downarrow \\
 06 \downarrow \\
 \underline{-6} \downarrow \\
 00 \\
 \underline{-0} \\
 0
 \end{array}$$

Ans. ₹ 24.30

3. $6 \overline{)89.16} (14.86$

$$\begin{array}{r}
 \underline{-6} \downarrow \downarrow \\
 29 \downarrow \\
 \underline{-24} \downarrow \\
 51 \downarrow \\
 \underline{-48} \downarrow \\
 36 \\
 \underline{-36} \\
 0
 \end{array}$$

Ans. ₹ 14.86

4. $8 \overline{)44.80} (5.60$

$$\begin{array}{r}
 \underline{-40} \downarrow \downarrow \\
 48 \downarrow \\
 \underline{-48} \downarrow \\
 00 \\
 \underline{-00} \\
 0
 \end{array}$$

Ans. ₹ 5.60

$$\begin{array}{r}
 5 \overline{) 905.95} (181.19 \\
 \underline{-5} \downarrow \\
 40 \downarrow \\
 \underline{-40} \downarrow \\
 05 \downarrow \\
 \underline{-5} \downarrow \\
 09 \downarrow \\
 \underline{-5} \downarrow \\
 45 \downarrow \\
 \underline{-45} \downarrow \\
 0
 \end{array}
 \quad
 \begin{array}{r}
 22 \overline{) 965.80} (43.90 \\
 \underline{-88} \downarrow \\
 85 \downarrow \\
 \underline{-66} \downarrow \\
 198 \downarrow \\
 \underline{-198} \downarrow \\
 00 \downarrow \\
 \underline{-0} \downarrow \\
 0
 \end{array}$$

Ans. ₹ 181.19

Ans. ₹ 43.90

- C 1.** Cost of 1 pencil box = ₹ 15.50

Cost of 5 pencil boxes = $5 \times ₹ 15.50$

$$\begin{array}{r}
 \text{₹} \quad \text{P} \\
 15 \quad . \quad 50 \\
 \times \quad 5 \\
 \hline
 77 \quad 50
 \end{array}$$

Therefore, ₹ 77.50 is the cost of 5 pencil boxes.

- 2.** Cost of one toy car = ₹ 8

number of toy cars bought for ₹ 856 = $₹ 856 \div ₹ 8$

$$\begin{array}{r}
 8 \overline{) 856} (107 \\
 \underline{-8} \downarrow \downarrow \\
 056 \\
 \underline{-56} \downarrow \\
 0
 \end{array}$$

Therefore, 107 cars can be bought for ₹ 856.

- 3.** Cost of 1 litre petrol = ₹ 78.60

Cost of 9 litre petrol = ₹ 78.60 $\times$ 9

$$\begin{array}{r}
 \text{₹} \quad \text{P} \\
 78 \quad . \quad 60 \\
 \times \quad 9 \\
 \hline
 707 \quad 40
 \end{array}$$

Therefore, ₹ 707.40 is the cost of a litres petrol.

4. Cost of 8 dresses = ₹ 896.80

Cost of 1 dress = ₹ 896.80 ÷ 8

$$\begin{array}{r} 8 \overline{) 896.80} (112.10 \\ \underline{-8} \downarrow \\ 09 \\ \underline{-8} \downarrow \\ 16 \\ \underline{-16} \downarrow \\ 08 \\ \underline{-08} \downarrow \\ 00 \\ \underline{-0} \\ 0 \end{array}$$

Therefore, ₹ 112.10 is
the cost of 1 dress.

D 1. Cost of 4 umbrellas = ₹ 512

Cost of 1 umbrella = ₹ 512 ÷ 4

$$\begin{array}{r} 4 \overline{) 512} (128 \\ \underline{-4} \downarrow \\ 11 \\ \underline{-8} \downarrow \\ 32 \\ \underline{-32} \\ 0 \end{array}$$

Therefore, cost of 1 umbrella is ₹ 128

2. Cost of 7 frames = ₹ 721

Cost of 1 frame = ₹ 721 ÷ 7

$$\begin{array}{r} 7 \overline{) 721} (103 \\ \underline{-7} \downarrow \downarrow \\ 021 \\ \underline{-21} \\ 0 \end{array}$$

Therefore, cost of 1 frame is ₹ 103

3. Cost of 6 boxes = ₹ 672

Cost of 1 box = ₹ 672 ÷ 6

$$\begin{array}{r} 6 \overline{) 672} (112 \\ \underline{-6} \downarrow \\ 07 \\ \underline{-06} \downarrow \\ 12 \\ \underline{-12} \\ 0 \end{array}$$

Therefore, ₹ 112 is the cost of one box

4. Cost of 8 pillows = 688

Cost of 1 pillow = ₹ $688 \div 8$

Therefore, ₹ 86 is the cost of 1 pillow

$$\begin{array}{r} 8 \overline{) 688} (86 \\ -64 \downarrow \\ \hline 48 \\ -48 \\ \hline 0 \end{array}$$

5. Cost of 9 folders = ₹ 333

Cost of one folder = ₹ $333 \div 9$

Therefore, ₹ 37 is the cost of one folder.

$$\begin{array}{r} 9 \overline{) 333} (37 \\ -27 \downarrow \\ \hline 63 \\ -63 \\ \hline 0 \end{array}$$

Practice Time 13.4

Do it yourself.

CHAPTER - 14

Practice Time 14.1

A 1. Oval, 6

2. Triangle, 24

3. $25 \times 3 = 75$ shapes

4. Square and circle, 18

B 1. 30

2. 35

3. Apple and Grape

4. Mango

5. Chikoo

C 1. Foot ball

2. sports played by students.

3. $90 - 70 = 20$

4. Volleyball

5. 85 students

6. Basketball

D Do it yourself.

Practice Time 14.2

A 1. Sarees

2. Skirts

3. Yes

4. No

5. False

B 1. Swimming

2. Football

3. Cricket

C 1. 50 cars

2. 25 cars

3. 25 cars

CLASS - V
CHAPTER - 1

Practice Time - 1.1

- A** 1. 875109 = Eight Lakh seventy five thousand one hundred and nine.
2. 523467 = Five lakh twenty three thousand four hundred and sixty-seven.
3. 43542179 = Four crore thirty-five lakh forty-two thousand one hundred and seventy-nine.
4. 9953880 = Ninety-nine lakh fifty-three thousand eight hundred and eighty.
- B** 1. $86090201 = 80000000 + 6000000 + 90000 + 200 + 1$
2. $5843725 = 5000000 + 800000 + 40000 + 3000 + 700 + 20 + 5$
3. $93100310 = 90000000 + 3000000 + 100000 + 300 + 10$
4. $615125 = 600000 + 10000 + 5000 + 100 + 20 + 5$
- C** 2, 79, 868, 2803568, 19872003, 20016930
- D** 3537286, 2989632, 2828335, 1995764
- E** 1. 57000008 2. 890300 3. 543956
4. 80405 5. 75983465
- F** 1. 60000000 2. 30000000 3. 90
4. 60000
- G** 1. < 2. < 3. > 4. <
- H** 1. 7776430 2. 5554210 3. 9953210 4. 9999432
- I** 1. 11112345 2. 11112789
3. 44446789 4. 11111257
- J** 1. 1715401 2. 18528 3. 740204 4. 513927
- K** 1. 985722 2. 546931 3. 63748 4. 185274

Practice Time 1.2

1. Indian system = 3,19,045

Three lakh nineteen thousand forty five

International system = 319,045

Three hundred nineteen thousand forty-five.

- 2.** Indian system = 8,83,677

Eight lakh eight three thousand six hundred seventy seven.

International system = 883,677

Eight hundred eighty three thousand six hundred seventy-seven.

- 3.** Indian system = 7,37,54,001

Seven crore thrity-seven lakh fifty four thousand one.

International system - 7,37,54,001 - Seventy three million seven hundred fifty four thousand one

- 4.** Indian system = 8,64,219

Eight lakh sixty-four thousand two hundred nineteen

International system = 864,219

Eight hundred sixty four thousand two hundred nineteen.

- 5.** Indian system = 50,17,009

Fifty lakh seventeen thousand nine

International system = 5,017,009

Five million seventeen thousand nine

- 6.** Indian system = 8,349,018

Eight three lakh forty nine thousand eighteen

International system = 8,349,018

Eight million three hundred forty-nine thousand eighteen.

- 7.** Indian system = 9,76,876

Nine lakh seventy-six thousand and eight hundred seventy-six.

International system = 976,876

Nine hundred seventy six thousand eight hundred seventy-six.

- 8.** Indian system = 95,80,581

Ninety-five lakh eighty thousand five hundred eighty-one

International system = 9,580,581

Nine million five hundred eighty thousand five hundred eighty-one

Practice Time 1.3

- A** Round off to nearest 10.

$$1. 42830 \qquad 2. 896250 \qquad 3. 17090$$

$$4. 84200 \qquad 5. 63550 \qquad 6. 5490$$

B Round off to nearest 100

$$1. 54800 \qquad 2. 38400 \qquad 3. 9500$$

$$4. 36200 \qquad 5. 90500 \qquad 6. 3300$$

C Round off to nearest 1000

$$1. 94000 \qquad 2. 31000 \qquad 3. 77000$$

$$4. 27000 \qquad 5. 29000 \qquad 6. 81000$$

CHAPTER - 2

Practice Time 2

A 1. $\overline{\text{IV}} \text{DLXXVII} = 4000 + 500 + 70 + 7 = 4577$

2. $\text{CCCXCIV} = 300 + 90 + 4 = 394$

3. $\text{MCLIV} = 1000 + 100 + 50 + 4 = 1154$

4. $\text{MM} = 1000 + 1000 = 2000$

5. $\text{MCDXLV} = 1000 + 400 + 40 + 5 = 1445$

6. $\text{MMCDL} = 1000 + 1000 + 400 + 50 = 2450$

7. $\text{CDXXXVIII} = 400 + 30 + 8 = 438$

8. $\text{DCCIX} = 500 + 100 + 100 + 9 = 709$

9. $\text{CDXL} = 400 + 40 = 440$

10. $\overline{\text{IX}}\text{DCCCV} = 9000 + 500 + 100 + 100 + 100 + 5 = 9805$

11. $\overline{\text{X}}\text{CDL} = 10000 + 400 + 50 = 10450$

12. $\overline{\text{XIC}}\text{MLXII} = 11000 + 900 + 50 + 10 + 2 = 11962$

13. $\overline{\text{VIIID}}\text{CCXC} = 8000 + 500 + 100 + 100 + 90 = 8790$

14. $\overline{\text{CCD}}\text{XV} = 200000 + 500 + 10 + 5 = 200515$

15. $\overline{\text{LCD}}\text{LI} = 50000 + 400 + 51 = 50451$

16. $\overline{\text{DD}}\text{XL} = 500000 + 500 + 40 = 500540$

17. $\overline{\text{LVC}}\text{MLXXIV} = 55000 + 900 + 70 + 4 = 55974$

18. $\overline{\text{XCD}}\text{CXLV} = 90000 + 500 + 100 + 40 + 5 = 90645$

19. $\overline{\text{XCIX}}\text{CMXCIX} = 99000 + 900 + 90 + 9 = 99999$

20. $\text{CXLVI} = 100 + 40 + 6 = 146$

- B**
1. 250 = 200 + 50 = CCL
 2. 959 = 900 + 50 + 9 = CMLIX
 3. 436 = 400 + 30 + 6 = CDXXXVI
 4. 526 = 500 + 20 + 6 = DXXVI
 5. 585 = 500 + 80 + 5 = DLXXXV
 6. 681 = 600 + 80 + 1 = DCLXXXI
 7. 1550 = 1000 + 500 + 50 = MDL
 8. 191 = 100 + 90 + 1 = CXCI
 9. 856 = 800 + 50 + 6 = DCCCLVI
 10. 504 = 500 + 4 = DIV
 11. 2009 = 2000 + 9 = MMIX
 12. 1140 = 1000 + 100 + 40 = MCXL
 13. 8980 = 8000 + 900 + 80 = $\overline{\text{VIII}}$ CMLXXX
 14. 1720 = 1000 + 700 + 20 = MDCCXX
 15. 2600 = 2000 + 600 = MMDC
 16. 24975 = 20000 + 4000 + 900 + 70 + 5
= $\overline{\text{XXIV}}$ CMLXXV
 17. 246763 = 200000 + 40000 + 6000 + 700 + 60 + 3
= $\overline{\text{CCXLVI}}$ DCCLXIII
 18. 72805 = 70000 + 2000 + 800 + 5
= $\overline{\text{LXXII}}$ DCCCV
 19. 50986 = 50000 + 900 + 80 + 6
= $\overline{\text{L}}$ CMLXXXVI
 20. 50791 = 50000 + 700 + 90 + 1
= $\overline{\text{L}}$ DCCXCI
- C**
1. DCCXCV
 2. $\overline{\text{XV}}$ CDLXXII
 3. DCCCLXXX
 4. $\overline{\text{IX}}$
 5. DCXLV
- D**
1. XXXIX - XXXII = 39-32=7=VII
 2. VI-I = 6-1=5=V
 3. XXII + 111 + XV = 22 + 3 + 15 = 40 = XL

4. $V + V + XII = 5 + 5 + 12 = 22 = XXII$
5. $IX + XXXVII = 9 + 37 = 46 = XLVI$
6. $XLIV - XXIII = 44 - 23 = 21 = XXI$
7. $XLII - XLI = 42 - 41 = 1 = I$
8. $XV + XIV + V = 15 + 14 + 5 = 34 = XXXIV$
9. $XIV - II - III = 14 - 2 - 3 = 9 = IX$
10. $IX + XV + XXI = 9 + 15 + 21 = 45 = XLV$
11. $XXXIV + IX = 34 + 9 = 43 = XLIII$
12. $XII + I = 12 + 1 = 13 = XIII$
13. $II + II = 2 + 2 = 4 = IV$
14. $VI + III + XIV = 6 + 3 + 14 = 23 = XXIII$

CHAPTER - 3

Practice Time 3.1

- A**
1.
$$\begin{array}{r} 378404 \\ + 119738 \\ \hline 498142 \end{array}$$
 2.
$$\begin{array}{r} 620596 \\ + 183947 \\ \hline 804543 \end{array}$$
 3.
$$\begin{array}{r} 762183 \\ + 415839 \\ \hline 1178022 \end{array}$$
 4.
$$\begin{array}{r} 4693821 \\ + 4193876 \\ \hline 8887697 \end{array}$$
 5.
$$\begin{array}{r} 2567932 \\ + 1983561 \\ \hline 4551493 \end{array}$$
 6.
$$\begin{array}{r} 4042960 \\ + 1089650 \\ \hline 5132610 \end{array}$$
 7.
$$\begin{array}{r} 905617891 \\ 193287685 \\ + 736945583 \\ \hline 1835851159 \end{array}$$
 8.
$$\begin{array}{r} 67983241 \\ 41987625 \\ + 3726892 \\ \hline 113697758 \end{array}$$
 9.
$$\begin{array}{r} 4926283 \\ 1873249 \\ + 6218573 \\ \hline 13018105 \end{array}$$
 10.
$$\begin{array}{r} 41932163 \\ 21648173 \\ 19625034 \\ + 49835047 \\ \hline 133040417 \end{array}$$

$$\begin{array}{r}
 11. \quad 119738 \\
 \quad 10895 \\
 \quad 29876 \\
 + \quad 4987 \\
 \hline
 165496
 \end{array}$$

$$\begin{array}{r}
 12. \quad 304281035 \\
 \quad 242628321 \\
 + 426328326 \\
 \hline
 973237682
 \end{array}$$

$$\begin{array}{r}
 \text{B } 1. \quad 86412765 \\
 \quad 658014 \\
 \quad 62783 \\
 + \quad 8019 \\
 \hline
 87141581
 \end{array}$$

$$\begin{array}{r}
 2. \quad 38760501 \\
 \quad 942173 \\
 + \quad 18934 \\
 \hline
 39721608
 \end{array}$$

$$\begin{array}{r}
 3. \quad 69731 \\
 \quad 108426 \\
 + \quad 23485 \\
 \hline
 201642
 \end{array}$$

$$\begin{array}{r}
 \text{C } 1. \quad 469382 \\
 \quad 1837094 \\
 + 256194 \\
 \hline
 2562670
 \end{array}$$

$$\begin{array}{r}
 2. \quad 7200918 \\
 \quad 3402561 \\
 + 2176905 \\
 \hline
 12780384
 \end{array}$$

$$\begin{array}{r}
 3. \quad 73253832 \\
 \quad 123654206 \\
 + \quad 3426328 \\
 \hline
 200334366
 \end{array}$$

$$\begin{array}{r}
 \text{D} \quad 7605217 \\
 + 2560189 \\
 \hline
 10165406
 \end{array}$$

$$\begin{array}{r}
 \text{E} \quad 6324628 \\
 \quad 32642853 \\
 + 465212655 \\
 \hline
 504180136
 \end{array}$$

Fifty crore forty-one lakh eighty thousand one hundred thirty-six.

- F**
1. Commutative property
 2. Additive Identity property
 3. Associative property
 4. Additive Identity property

Practice Time 3.2

A 1.
$$\begin{array}{r} 621954 \\ + 420963 \\ \hline 200991 \end{array}$$

3.
$$\begin{array}{r} 563798 \\ - 192549 \\ \hline 371249 \end{array}$$

5.
$$\begin{array}{r} 389572 \\ - 199876 \\ \hline 189696 \end{array}$$

7.
$$\begin{array}{r} 7094532 \\ - 1598346 \\ \hline 5496186 \end{array}$$

9.
$$\begin{array}{r} 10098304 \\ - 2968415 \\ \hline 7129889 \end{array}$$

B 1.
$$\begin{array}{r} 9856728 \\ - 2905679 \\ \hline 6951049 \end{array}$$

3.
$$\begin{array}{r} 40000000 \\ - 39998561 \\ \hline 0001439 \end{array}$$

C
$$\begin{array}{r} 49321678 \\ - 30561442 \\ \hline 18760236 \end{array}$$

E
$$\begin{array}{r} 4896711 \\ - 781931 \\ \hline 4114780 \end{array}$$

G
$$\begin{array}{r} 921467390 \\ - 9218563 \\ \hline 912248827 \end{array}$$

H Step 1
$$\begin{array}{r} 879845 \\ + 98546 \\ \hline 978391 \end{array}$$

2.
$$\begin{array}{r} 721907 \\ - 712505 \\ \hline 09402 \end{array}$$

4.
$$\begin{array}{r} 573216 \\ - 58764 \\ \hline 514452 \end{array}$$

6.
$$\begin{array}{r} 4004569 \\ - 1875397 \\ \hline 2129172 \end{array}$$

8.
$$\begin{array}{r} 20005169 \\ - 3497685 \\ \hline 16507484 \end{array}$$

2.
$$\begin{array}{r} 698742 \\ - 589876 \\ \hline 108866 \end{array}$$

4.
$$\begin{array}{r} 300000 \\ - 299999 \\ \hline 000001 \end{array}$$

D
$$\begin{array}{r} 9897145 \\ - 3214217 \\ \hline 6682928 \end{array}$$

F
$$\begin{array}{r} 10000000 \\ - 217685 \\ \hline 9782315 \end{array}$$

Step 2
$$\begin{array}{r} 12987687 \\ - 978391 \\ \hline 12009296 \end{array}$$

$$\begin{array}{r} \text{I} \quad 7000000 \\ - 4845048 \\ \hline 2154952 \end{array}$$

$$\text{K} \quad 1. 349 \quad 2. 2739$$

$$5. 1234 \quad 6. 5712$$

$$\begin{array}{r} \text{J} \quad 10000000 \\ - 3216487 \\ \hline 6783513 \end{array}$$

$$3. 0 \quad 4. 1835$$

$$7. 0 \quad 8. 0$$

Practice Time 3.3

$$\begin{array}{r} \text{A} \quad 1. \quad 3429 \\ \quad \times 432 \\ \hline 60858 \\ 102870 \\ + 1371600 \\ \hline 1481328 \end{array}$$

$$\begin{array}{r} 3. \quad 8768 \\ \quad \times 128 \\ \hline 70144 \\ 175360 \\ + 876800 \\ \hline 1122304 \end{array}$$

$$\begin{array}{r} 5. \quad 92876 \\ \quad \times 483 \\ \hline 278628 \\ 7430080 \\ + 37150400 \\ \hline 44859108 \end{array}$$

$$\begin{array}{r} 7. \quad 83925 \\ \quad \times 408 \\ \hline 671400 \\ 000000 \\ + 33570000 \\ \hline 34241400 \end{array}$$

$$\begin{array}{r} 9. \quad 76457 \\ \quad \times 306 \\ \hline 458742 \\ 000000 \\ + 22937100 \\ \hline 23395842 \end{array}$$

$$\begin{array}{r} 2. \quad 3082 \\ \quad \times 265 \\ \hline 15410 \\ 184920 \\ + 616400 \\ \hline 816730 \end{array}$$

$$\begin{array}{r} 4. \quad 9805 \\ \quad \times 463 \\ \hline 29415 \\ 588300 \\ + 3922000 \\ \hline 4539715 \end{array}$$

$$\begin{array}{r} 6. \quad 40100 \\ \quad \times 580 \\ \hline 00000 \\ 3208000 \\ + 20050000 \\ \hline 23258000 \end{array}$$

$$\begin{array}{r} 8. \quad 69725 \\ \quad \times 846 \\ \hline 418350 \\ 2989000 \\ + 55780000 \\ \hline 58987350 \end{array}$$

$$\begin{array}{r} 10. \quad 48094 \\ \quad \times 308 \\ \hline 384752 \\ 000000 \\ + 14428200 \\ \hline 14812952 \end{array}$$

$$\begin{array}{r}
 11. \quad \begin{array}{r} 9\ 3\ 2\ 0\ 1 \\ \times 4\ 1\ 3\ 2 \\ \hline 1\ 8\ 6\ 4\ 0\ 2 \\ 2\ 7\ 9\ 6\ 0\ 3\ 0 \\ 9\ 3\ 2\ 0\ 1\ 0\ 0 \\ + 3\ 7\ 2\ 8\ 0\ 4\ 0\ 0\ 0 \\ \hline 3\ 8\ 5\ 1\ 0\ 6\ 5\ 3\ 2 \end{array}
 \end{array}$$

$$\begin{array}{r}
 12. \quad \begin{array}{r} 5\ 6\ 0\ 9\ 4 \\ \times 4\ 0\ 5\ 6 \\ \hline 3\ 3\ 6\ 5\ 6\ 4 \\ 2\ 8\ 0\ 4\ 7\ 0\ 0 \\ 0\ 0\ 0\ 0\ 0\ 0 \\ + 2\ 2\ 4\ 3\ 7\ 6\ 0\ 0\ 0 \\ \hline 2\ 2\ 7\ 5\ 1\ 7\ 2\ 6\ 4 \end{array}
 \end{array}$$

B 1. 945×20

$$\begin{array}{r} 9\ 4\ 5 \\ \times 2 \\ \hline 1\ 8\ 9\ 0 \end{array}$$
 $945 \times 20 = 18900$

2. 839×300

$$\begin{array}{r} 8\ 3\ 9 \\ \times 3 \\ \hline 2\ 5\ 1\ 7 \end{array}$$
 $839 \times 300 = 251700$

3. 7289×400

$$\begin{array}{r} 7\ 2\ 8\ 9 \\ \times 4 \\ \hline 2\ 9\ 1\ 5\ 6 \end{array}$$
 $7289 \times 400 = 2915600$

4. 2984×7000

$$\begin{array}{r} 2\ 9\ 8\ 4 \\ \times 7 \\ \hline 2\ 0\ 8\ 8\ 8 \end{array}$$
 $2984 \times 7000 = 20888000$

5. 3058×600

$$\begin{array}{r} 3\ 0\ 5\ 8 \\ \times 6 \\ \hline 1\ 8\ 3\ 4\ 8 \end{array}$$
 $3058 \times 600 = 1834800$

6. $250 \times 400 \times 20$
 $[25 \times 4 \times 2 = 200]$
 $= 2000000$

- C 1.** $2799 \times 10 = 27990$
2. $6323 \times 100 = 632300$
3. $4215 \times 10000 = 42150000$
4. $4095 \times 10000 = 40950000$
5. $2530 \times 100 = 253000$
6. $3612 \times 10000 = 36120000$

- D 1.** 0 **2.** 1 **3.** 3105 **4.** 0
5. 270 **6.** 245 **7.** 121, 23

Practice Time 3.4

- A 1.** $Q = 954, R = 321$ **2.** $Q = 108, R = 72$
3. $Q = 13, R = 650$ **4.** $Q = 29, R = 5176$
5. $Q = 495, R = 187$ **6.** $Q = 48, R = 9729$
7. $Q = 90, R = 5671$ **8.** $Q = 12, R = 9574$

9. $Q = 25, R = 6$

B 1. $287 \overline{)689728} (2403$

$$\begin{array}{r} -574 \downarrow \downarrow \downarrow \\ \hline 1157 \downarrow \downarrow \\ 1148 \downarrow \downarrow \\ \hline 0928 \\ -861 \\ \hline 67 \end{array}$$

$Q = 2403$

$R = 67$

2. $87 \overline{)951692} (10938$

$$\begin{array}{r} -87 \downarrow \downarrow \downarrow \\ \hline 816 \downarrow \downarrow \\ 783 \downarrow \\ \hline 339 \downarrow \\ -261 \downarrow \\ \hline 782 \\ 696 \\ \hline 86 \end{array}$$

$Q = 10938$

$R = 86$

3. $329 \overline{)1316767} (4002$

$$\begin{array}{r} -1316 \downarrow \downarrow \downarrow \\ \hline 0000767 \\ -658 \\ \hline 109 \end{array}$$

$Q = 4002$

$R = 109$

4. $58 \overline{)851693} (14684$

$$\begin{array}{r} -58 \downarrow \downarrow \downarrow \\ \hline 271 \downarrow \downarrow \\ 232 \downarrow \\ \hline 396 \downarrow \\ -348 \downarrow \\ \hline 489 \downarrow \\ 464 \downarrow \\ \hline 253 \\ 21 \end{array}$$

$Q = 14684$

$R = 21$

5. $125 \overline{)321762} (2574$

$$\begin{array}{r} -250 \downarrow \downarrow \downarrow \\ \hline 717 \downarrow \downarrow \\ 625 \downarrow \\ \hline 926 \downarrow \\ -875 \downarrow \\ \hline 512 \\ -500 \\ \hline 12 \end{array}$$

$Q = 2574$

$R = 12$

6. $165 \overline{)215604} (1306$

$$\begin{array}{r} -165 \downarrow \downarrow \downarrow \\ \hline 506 \downarrow \downarrow \\ -495 \downarrow \downarrow \\ \hline 1104 \\ -990 \\ \hline 114 \end{array}$$

$Q = 1306$

$R = 114$

$$7. \quad 212 \overline{)408769} (1928$$

$$\begin{array}{r} -212 \downarrow \\ \hline 1957 \\ -1908 \downarrow \\ \hline 596 \\ -424 \downarrow \\ \hline 1729 \\ -1696 \\ \hline 033 \end{array}$$

$$Q = 1928$$

$$R = 33$$

$$8. \quad 513 \overline{)7580690} (14777$$

$$\begin{array}{r} -513 \downarrow \\ \hline 2450 \\ -2052 \downarrow \\ \hline 3986 \\ -3591 \downarrow \\ \hline 3959 \\ -3591 \downarrow \\ \hline 3680 \\ -3591 \\ \hline 89 \end{array}$$

$$Q = 14777$$

$$R = 89$$

$$9. \quad 56 \overline{)98156} (1752$$

$$\begin{array}{r} -56 \downarrow \\ \hline 321 \\ -321 \downarrow \\ \hline 295 \\ -280 \downarrow \\ \hline 156 \\ -112 \\ \hline 44 \end{array}$$

$$Q = 1752$$

$$R = 44$$

$$\mathbf{C} \quad 1. \quad 789 \overline{)1657274} (2100$$

$$\begin{array}{r} -1578 \downarrow \\ \hline 792 \\ -789 \downarrow \\ \hline 0374 \\ -000 \\ \hline 374 \end{array}$$

$$Q = 2100$$

$$R = 374$$

$$2. \quad 524 \overline{)1677342} (3201$$

$$\begin{array}{r} -1572 \downarrow \\ \hline 1053 \\ -1048 \downarrow \\ \hline 0542 \\ -524 \\ \hline 18 \end{array}$$

$$Q = 3201$$

$$R = 18$$

$$\begin{array}{r}
 3. \quad 690 \overline{)138104} (200 \\
 \underline{-1380} \downarrow \downarrow \\
 104 \\
 \underline{-000} \\
 104
 \end{array}$$

$$Q = 200$$

$$R = 104$$

$$\begin{array}{r}
 4. \quad 364 \overline{)694163} (1907 \\
 \underline{-364} \downarrow \downarrow \\
 3301 \\
 \underline{-3276} \downarrow \downarrow \\
 2563 \\
 \underline{-2548} \\
 15
 \end{array}$$

$$Q = 1907$$

$$R = 15$$

$$\begin{array}{r}
 5. \quad 620 \overline{)54037680} (87157 \\
 \underline{-4960} \downarrow \downarrow \downarrow \\
 4437 \\
 \underline{-4340} \downarrow \downarrow \\
 0976 \\
 \underline{-620} \downarrow \\
 3568 \\
 \underline{-3100} \downarrow \\
 4680 \\
 \underline{-4340} \\
 340
 \end{array}$$

$$Q = 87157$$

$$R = 340$$

$$\begin{array}{r}
 6. \quad 423 \overline{)73006835} (172592 \\
 \underline{-423} \downarrow \downarrow \downarrow \\
 3070 \\
 \underline{-2961} \downarrow \downarrow \\
 1096 \\
 \underline{-846} \downarrow \\
 2508 \\
 \underline{-2115} \downarrow \\
 3933 \\
 \underline{-3807} \downarrow \\
 1265 \\
 \underline{846} \\
 419
 \end{array}$$

$$Q = 172592$$

$$R = 419$$

D Greatest 9-digit number = 999999999

Greatest 3-digit number = 999

$$\begin{array}{r}
 999 \overline{)999999999} (1001001 \\
 \underline{-999} \downarrow \downarrow \downarrow \\
 999 \\
 \underline{-999} \downarrow \downarrow \\
 999 \\
 \underline{-999} \\
 000
 \end{array}$$

$$Q = 1001001$$

$$R = 0$$

E Smallest 7-digit number = 1000000

1 0 0 0 0 0 0

$$695 \overline{)998715} (1437$$

$$\begin{array}{r} -695 \downarrow \\ \hline \end{array}$$

$$\begin{array}{r} 3037 \\ \hline \end{array}$$

$$\begin{array}{r} -2780 \downarrow \\ \hline \end{array}$$

$$\begin{array}{r} 2571 \\ \hline \end{array}$$

$$\begin{array}{r} -2085 \downarrow \\ \hline \end{array}$$

$$\begin{array}{r} 4865 \\ \hline \end{array}$$

$$\begin{array}{r} -4865 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ \hline \end{array}$$

$$Q = 1437$$

$$R = 0$$

$$\begin{array}{r} 1000000 \\ -1285 \\ \hline 998715 \end{array}$$

Practice Time 3.5

1. Total production of tea during these three years

$$\begin{array}{r} 1236561 \\ 1097876 \\ + 1240507 \\ \hline 3574944 \end{array}$$

Thus, 3574944 tonnes of tea was produced during these three years

2.

$$\begin{array}{r} 5076198 \\ + 1827695 \\ \hline 6903893 \end{array}$$

3.

$$\begin{array}{r} 10000000 \\ - 5630182 \\ \hline 4369818 \end{array}$$

4. Costed votes = 1785436

Invalid votes = 19209

Valid votes = 1785436 – 19209

$$\begin{array}{r} 1785436 \\ - 19209 \\ \hline 1766227 \end{array}$$

Thus, 1766227 votes were valid votes.

5. Number of packets required to pack pencils = $3177174 \div 322$

$$322 \overline{)3177174} (9867$$

$$\begin{array}{r} -2898 \downarrow \\ \hline \end{array}$$

$$\begin{array}{r} 2791 \\ \hline \end{array}$$

$$\begin{array}{r} -2576 \downarrow \\ \hline \end{array}$$

$$\begin{array}{r} 2157 \\ \hline \end{array}$$

$$\begin{array}{r} -1932 \downarrow \\ \hline \end{array}$$

$$\begin{array}{r} 2254 \\ \hline \end{array}$$

$$\begin{array}{r} -2254 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ \hline \end{array}$$

Thus, 9867 packets were required to pack pencils.

6. Number of bolts produced in a day = 25683

Number of working days = 281

Thus, 7216923 bolts were produced in leap year.

$$\begin{array}{r} 25683 \\ \times 281 \\ \hline 25683 \\ 205464 \\ + 51366 \\ \hline 7216923 \end{array}$$

7. Number of students in each row = 125

Number of rows = 16

Total number of students = 125×16

Number of flowers in each students = 5

Total number of flowers = $2000 \times 5 = 10000$

$$\begin{array}{r} 125 \\ \times 16 \\ \hline 1750 \\ 1250 \\ \hline 2000 \end{array}$$

8. Cost of ceiling fan = 1165.65

Number of dozen fans = $9 \times 12 = 108$

Total amount of paid = 1165.65×108

Thus, 125890.20 is the total amount paid.

$$\begin{array}{r} 1165.65 \\ \times 108 \\ \hline 9325.20 \\ 00000.0 \\ 116565.0 \\ \hline 125890.20 \end{array}$$

9. Greatest 8-digit number = 99999999

Greatest 3-digit number = 999

$$\begin{array}{r} 999 \overline{)99999999} (100100 \\ \underline{-999} \quad \downarrow \downarrow \downarrow \\ 999 \quad \downarrow \downarrow \downarrow \\ \underline{-999} \quad \downarrow \downarrow \downarrow \\ 99 \quad \downarrow \downarrow \downarrow \\ \underline{-00} \\ 99 \end{array}$$

Q = 100100

R = 99

10. Total length of the rope = 1592568 m

Length of the rope in each bundle = 246 m

Number of bundles = 1592568

Thus, 6473 bundles will be made and

210 m of rope will remain unpacked.

$$\begin{array}{r} 246 \overline{)1592568} (6473 \\ \underline{-1476} \quad \downarrow \downarrow \downarrow \\ 1165 \quad \downarrow \downarrow \downarrow \\ \underline{-984} \quad \downarrow \downarrow \downarrow \\ 1816 \quad \downarrow \downarrow \downarrow \\ \underline{-1722} \quad \downarrow \downarrow \downarrow \\ 0948 \quad \downarrow \downarrow \downarrow \\ \underline{-738} \\ 210 \end{array}$$

CHAPTER - 4

Practice Time 4.1

A Do it yourself.

B 1. 8108

$$8 + 1 + 0 + 8 = 17 = 1 + 7 = 8 \quad \text{Not divisible by 9}$$

2. 64

$$6 + 4 = 10 = 1 + 0 = 1 \quad \text{Not divisible by 9}$$

3. 72432

$$7 + 2 + 4 + 3 + 2 = 18 = 1 + 8 = 9$$

Yes, it is divisible by 9.

4. $432981 = 4 + 3 + 2 + 9 + 8 + 1$

$$= 27 = 2 + 7 = 9$$

Yes, it is divisible by 9.

C 1. 3663

$$3 + 6 = 9; 6 + 3 = 9; 9 - 9 = 0$$

Yes, it is divisible by 11.

2. 84927

$$8 + 9 + 7 = 24; 4 + 2 = 6; 24 - 6 = 18$$

No, it is not divisible by 11.

3. 247269

$$2 + 7 + 6 = 15; 4 + 2 + 9 = 15; 15 - 15 = 0$$

Yes, it is divisible by 11.

4. 86407

$$8 + 4 + 7 = 19; 6 + 0 = 6; 19 - 6 = 7$$

No, it is not divisible by 11.

D 1. 53 __ 35

$$5 + 3 + 2 + 3 + 5 = 18; 1 + 8 = 9$$

It is divisible by 3.

2. 5402 __ 6

$$5 + 4 + 0 + 2 + 1 + 6 = 18$$

$1 + 8 = 9$, it is divisible by 3.

3. $_5462$

$$1 + 5 + 4 + 6 + 2 = 18$$

$1 + 8 = 9$, it is divisible by 3.

4. $387_$

$$3 + 8 + 7 + 0 = 18$$

$1 + 8 = 9$, it is divisible by 3

E 1. (b) $30 \overline{)7530} (251$

$$\begin{array}{r} -60 \downarrow \\ \underline{153} \\ -150 \downarrow \\ \underline{30} \\ -30 \\ \underline{0} \end{array}$$

$$Q = 251$$

$$R = 0$$

2. (c)

$36 \overline{)162612} (4517$

$$\begin{array}{r} -144 \downarrow \\ \underline{186} \\ -180 \downarrow \\ \underline{61} \\ -36 \downarrow \\ \underline{252} \\ -252 \\ \underline{0} \end{array}$$

$$Q = 4517$$

$$R = 0$$

(d) $36 \overline{)18864} (524$

$$\begin{array}{r} -180 \downarrow \\ \underline{86} \\ -72 \downarrow \\ \underline{144} \\ -144 \\ \underline{0} \end{array}$$

$$Q = 524$$

$$R = 0$$

3. (a) $45 \overline{)5535} (123$

$$\begin{array}{r} -45 \downarrow \\ \underline{103} \\ -90 \downarrow \\ \underline{135} \\ -135 \\ \underline{0} \end{array}$$

$$Q = 123$$

$$R = 0$$

(b) $45 \overline{)43425} (965$

$$\begin{array}{r} -405 \downarrow \\ \underline{292} \\ -270 \downarrow \\ \underline{225} \\ -225 \\ \underline{0} \end{array}$$

$$Q = 965$$

$$R = 0$$

$$\begin{array}{r}
 (c) \quad 45 \overline{)36045} \overline{)801} \\
 \underline{-360} \downarrow \\
 45 \\
 \underline{-45} \\
 0
 \end{array}$$

$$Q = 801$$

$$R = 0$$

$$\begin{array}{r}
 (d) \quad 45 \overline{)10620} \overline{)236} \\
 \underline{-90} \downarrow \\
 162 \\
 \underline{-135} \downarrow \\
 270 \\
 \underline{-270} \\
 0
 \end{array}$$

$$Q = 236$$

$$R = 0$$

$$\begin{array}{r}
 4. \quad (b) \quad 20 \overline{)67800} \overline{)3390} \\
 \underline{-60} \downarrow \\
 78 \\
 \underline{-60} \downarrow \\
 180 \\
 \underline{-180} \downarrow \\
 00 \\
 \underline{-0} \\
 0
 \end{array}$$

$$Q = 3390$$

$$R = 0$$

$$\begin{array}{r}
 (c) \quad 20 \overline{)623460} \overline{)31173} \\
 \underline{-60} \downarrow \\
 23 \\
 \underline{-20} \downarrow \\
 34 \\
 \underline{-20} \downarrow \\
 146 \\
 \underline{-140} \downarrow \\
 60 \\
 \underline{-60} \\
 0
 \end{array}$$

$$Q = 31173$$

$$R = 0$$

$$\begin{array}{r}
 (d) \quad 20 \overline{)4000} \overline{)200} \\
 \underline{-40} \downarrow \\
 00 \\
 \underline{-0} \downarrow \\
 00 \\
 \underline{-00} \\
 0
 \end{array}$$

$$Q = 200$$

$$R = 0$$

$$\begin{array}{r}
 5. \quad (d) \quad 15 \overline{)2430} \overline{)162} \\
 \underline{-15} \downarrow \\
 93 \\
 \underline{-90} \downarrow \\
 30 \\
 \underline{30} \\
 0
 \end{array}$$

$$Q = 162$$

$$R = 0$$

F 1. 2704

$$\begin{array}{r} 2 \overline{)2704} \\ \underline{2 1352} \\ 2 676 \\ \underline{2 338} \\ 13 169 \\ \underline{13 13} \\ 1 \end{array}$$

No, 9 is not a factor of 2704

2. 28108

$$\begin{array}{r} 2 \overline{)8108} \\ \underline{2 4054} \\ 2027 2027 \\ \underline{2027} \\ 1 \end{array}$$

No, 9 is not a factor of 8108

3. 23856

$$\begin{array}{r} 2 \overline{)3856} \\ \underline{2 1928} \\ 2 964 \\ \underline{2 482} \\ 241 241 \\ \underline{241} \\ 1 \end{array}$$

No, 9 is not a factor of 3856

4. 272432

$$\begin{array}{r} 2 \overline{)72432} \\ \underline{2 36216} \\ 2 18108 \\ \underline{2 9054} \\ 9 4527 \\ \underline{932} \\ 532 503 \\ \underline{532} \\ 1 \end{array}$$

Yes, 9 is a factor of 72432

G 1565490

$$\begin{array}{r} 15 \overline{)65490} \\ \underline{2 4366} \\ 2183 2183 \\ \underline{2183} \\ 1 \end{array}$$

Yes, it is divisible by 15

Practice Time 4.2

A 1. First 7 multiples of 7 are 7, 14, 21, 28, 35, 42, 49, 56, first 4 multiples of 14 are 14, 28, 42, 56 first 3 common multiples of 7 and 14 are 14, 28, 42

2. Multiples of 3 are 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48, 51

Multiple of 5 are 5, 10, 15, 20, 25, 30, 35, 40, 45, first 3 common multiples 15, 30, 45

3. Multiples of 12 are 12, 24, 36, 48, 60, 72, 84, 96, 108, 120, 132, 144

Multiples of 16 are 16, 32, 48, 64, 80, 96, 112, 128, 144, 160, 176, 192, 208 first 3 common multiples = 48, 96, 144

4. Multiples of 18 are 18, 36, 54, 72, 90, 108, 126, 144, 162, 180, 198, 216

Multiple of 24 are 24, 48, 72, 96, 120, 144, 168, 192, 216
first 3 common multiples = 72, 144, 216

B 1. 36 and 40

$1 \times 36 = 36$

$1 \times 40 = 40$

$2 \times 18 = 36$

$2 \times 20 = 40$

$3 \times 12 = 36$

$4 \times 10 = 40$

$4 \times 9 = 36$

$5 \times 8 = 40$

Common factors = 1, 2, 4

2. 12, 15 and 18

Factors of 12, 15 and 18 are

$1 \times 12 = 12$

$1 \times 15 = 15$

$1 \times 18 = 18$

$2 \times 6 = 12$

$3 \times 5 = 15$

$2 \times 9 = 18$

$3 \times 4 = 12$

$3 \times 6 = 18$

Common factors = 1, 3

3. 18 and 24

Factors of 18 and 24 are

$1 \times 18 = 18$

$1 \times 24 = 24$

$2 \times 9 = 18$

$2 \times 12 = 24$

$3 \times 6 = 18$

$3 \times 8 = 24$

$4 \times 6 = 24$

Common factors = 1, 2, 3, 6

4. 32, 40 and 56

factors of 32, 40 and 56 are

$1 \times 32 = 32$

$1 \times 40 = 40$

$1 \times 56 = 56$

$2 \times 16 = 32$

$2 \times 20 = 40$

$2 \times 28 = 56$

$4 \times 8 = 32$

$4 \times 10 = 40$

$4 \times 14 = 56$

$5 \times 8 = 40$

$7 \times 8 = 56$

Common factors = 1, 2, 4, 8

C 1.

$$\begin{array}{r|l}
 2 & 210 \\
 \hline
 5 & 105 \\
 \hline
 3 & 21 \\
 \hline
 7 & 7 \\
 \hline
 & 1
 \end{array}$$

Prime factors = $2 \times 5 \times 3 \times 7$

$$\begin{array}{r|l} 2. & 5 \mid 145 \\ & 29 \mid 29 \\ & \hline & 1 \end{array}$$

Prime factors = 5×29

$$\begin{array}{r|l} 3. & 2 \mid 180 \\ & 2 \mid 90 \\ & 5 \mid 45 \\ & 3 \mid 9 \\ & 3 \mid 3 \\ & \hline & 1 \end{array}$$

Prime factors = $2 \times 2 \times 5 \times 3 \times 3$

$$\begin{array}{r|l} 4. & 2 \mid 72 \\ & 2 \mid 36 \\ & 2 \mid 18 \\ & 3 \mid 9 \\ & 3 \mid 3 \\ & \hline & 1 \end{array}$$

Prime factors = $2 \times 2 \times 2 \times 3 \times 3$

- D 1.** Multiples of 8 are 8, 16, 24, 32, 40, 48
 Multiples of 16 are 16, 32, 48
 First 3 common multiples of 8 and 16 are 16, 32, 48
- 2.** Multiples of 5 are 5, 10, 15, 20, 25, 30
 Multiples of 10 are 10, 20, 30
 First 2 common multiples of 5 and 10 are 10, 20.
- 3.** Multiples of 10 are 10, 20, 30, 40, 50, 60, 70, 80, 90, 110, 120
 Multiples of 15 are 15, 30, 45, 60, 75, 90, 105, 120, 135, 150, 165, 180
 Multiples of 20 are 20, 40, 60, 80, 100, 120, 140, 160, 180
 first 3 common multiples are 60, 120, 180
- 4.** Multiples of 8 are 8, 16, 24, 32, 40, 48, 56
 Multiples of 14 are 14, 28, 42, 56
 Multiples of 28 are 28, 56
 first common multiples are 56
- 5.** Multiples of 5 are 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 90, 95, 100, 105, 110, 115, 120

Multiples of 10 are 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120

Multiples of 15 are 15, 30, 45, 60, 75, 90, 105, 120, 135, 150, 165, 180

first 4 common multiples are 30, 60, 90, 120

- E** 1. ✓ 2. ✓ 3. ✗ 4. ✓
5. ✗ 6. ✓

F
$$\begin{array}{r|l} 7 & 133 \\ 19 & 19 \\ \hline & 1 \end{array}$$
 Other prime factor is 19.

Practice time 4.3

A 1.
$$\begin{array}{r|l} 2 & 22 \\ 11 & 11 \\ \hline & 1 \end{array}$$

$$22 = 2 \times 11$$

Common factor = 2

$$\begin{array}{r|l} 2 & 30 \\ 3 & 15 \\ 5 & 5 \\ \hline & 1 \end{array}$$

$$30 = 2 \times 3 \times 5$$

2.
$$\begin{array}{r|l} 2 & 30 \\ 3 & 15 \\ 5 & 5 \\ \hline & 1 \end{array}$$

$$30 = 2 \times 3 \times 5$$

$$\begin{array}{r|l} 2 & 52 \\ 2 & 26 \\ 13 & 13 \\ \hline & 1 \end{array}$$

$$52 = 2 \times 2 \times 13$$

$$\begin{array}{r|l} 2 & 70 \\ 5 & 35 \\ 7 & 7 \\ \hline & 1 \end{array}$$

$$70 = 2 \times 5 \times 7$$

Common factor = 2

3.
$$\begin{array}{r|l} 3 & 27 \\ 3 & 9 \\ 3 & 3 \\ \hline & 1 \end{array}$$

$$27 = 3 \times 3 \times 3$$

$$\begin{array}{r|l} 5 & 35 \\ 7 & 7 \\ \hline & 1 \end{array}$$

$$35 = 5 \times 7$$

Common factor = 1

4.
$$\begin{array}{r|l} 2 & 28 \\ 2 & 14 \\ 7 & 7 \\ \hline & 1 \end{array}$$

$$28 = 2 \times 2 \times 7$$

$$\begin{array}{r|l} 2 & 40 \\ 2 & 20 \\ 2 & 10 \\ 5 & 5 \\ \hline & 1 \end{array}$$

$$40 = 2 \times 2 \times 2 \times 5$$

Common factors = $2 \times 2 = 4$

$$\begin{array}{r|l} 2 & 16 \\ \hline 2 & 8 \\ \hline 2 & 4 \\ \hline 2 & 2 \\ \hline & 1 \end{array}$$

$$16 = 2 \times 2 \times 2 \times 2$$

$$\begin{array}{r|l} 2 & 48 \\ \hline 2 & 24 \\ \hline 2 & 12 \\ \hline 2 & 6 \\ \hline 3 & 3 \\ \hline & 1 \end{array}$$

$$48 = 2 \times 2 \times 2 \times 2 \times 3$$

$$\begin{array}{r|l} 2 & 72 \\ \hline 2 & 36 \\ \hline 2 & 18 \\ \hline 3 & 9 \\ \hline 3 & 3 \\ \hline & 1 \end{array}$$

$$72 = 2 \times 2 \times 2 \times 3 \times 3$$

$$\text{Common factors} = 2 \times 2 \times 2 = 8$$

$$\begin{array}{r|l} 2 & 14 \\ \hline 7 & 7 \\ \hline & 1 \end{array}$$

$$14 = 2 \times 7$$

$$\begin{array}{r|l} 5 & 35 \\ \hline 7 & 7 \\ \hline & 1 \end{array}$$

$$35 = 5 \times 7$$

$$\text{Common factors} = 7$$

B 1.

$$\begin{array}{r|l} 2 & 16 \\ \hline 2 & 8 \\ \hline 2 & 4 \\ \hline 2 & 2 \\ \hline & 1 \end{array}$$

$$16 = 2 \times 2 \times 2 \times 2$$

$$\begin{array}{r|l} 2 & 24 \\ \hline 2 & 12 \\ \hline 2 & 6 \\ \hline 3 & 3 \\ \hline & 1 \end{array}$$

$$24 = 2 \times 2 \times 2 \times 3$$

$$\text{HCF} = 2 \times 2 \times 2 = 8$$

$$\begin{array}{r|l} 2 & 12 \\ \hline 2 & 6 \\ \hline 3 & 3 \\ \hline & 1 \end{array}$$

$$12 = 2 \times 2 \times 3$$

$$\begin{array}{r|l} 2 & 20 \\ \hline 2 & 10 \\ \hline 5 & 5 \\ \hline & 1 \end{array}$$

$$20 = 2 \times 2 \times 5$$

$$\text{HCF} = 2 \times 2 = 4$$

$$\begin{array}{r|l} 2 & 84 \\ \hline 2 & 42 \\ \hline 3 & 21 \\ \hline 7 & 7 \\ \hline & 1 \end{array}$$

$$84 = 2 \times 2 \times 3 \times 7$$

$$\begin{array}{r|l} 2 & 36 \\ \hline 2 & 18 \\ \hline 3 & 9 \\ \hline 3 & 3 \\ \hline & 1 \end{array}$$

$$36 = 2 \times 2 \times 3 \times 3$$

$$\text{HCF} = 2 \times 2 \times 3 = 12$$

$$\begin{array}{r} 4. \quad 3 \overline{)63} \\ \underline{3} 31 \\ \underline{7} 7 \\ \underline{7} 0 \\ 1 \end{array}$$

$$63 = 3 \times 3 \times 7$$

$$\text{HCF} = 3$$

$$\begin{array}{r} 2 \overline{)66} \\ \underline{3} 33 \\ \underline{11} 11 \\ \underline{11} 0 \\ 1 \end{array}$$

$$66 = 2 \times 3 \times 11$$

$$\begin{array}{r} 5. \quad 5 \overline{)75} \\ \underline{5} 15 \\ \underline{3} 3 \\ \underline{3} 0 \\ 1 \end{array}$$

$$75 = 5 \times 5 \times 3$$

$$\text{HCF} = 5$$

$$\begin{array}{r} 5 \overline{)35} \\ \underline{5} 5 \\ \underline{7} 0 \\ 1 \end{array}$$

$$35 = 5 \times 7$$

$$\begin{array}{r} \text{C } 1. \quad 4 \overline{)6} (1 \\ \underline{-4} 2 \\ \underline{2} 4 (2 \\ \underline{-4} 0 \\ 0 \end{array}$$

$$\text{HCF} = 1$$

$$\begin{array}{r} 2 \overline{)9} (4 \\ \underline{-8} 1 (2 \\ \underline{1} 2 (2 \\ \underline{-2} 0 \\ 0 \end{array}$$

$$\begin{array}{r} 2. \quad 12 \overline{)32} (2 \\ \underline{-24} 8 (1 \\ \underline{8} 12 (1 \\ \underline{-8} 4 (2 \\ \underline{4} 8 (2 \\ \underline{-8} 0 \\ 0 \end{array}$$

$$\text{HCF} = 4$$

$$\begin{array}{r} 3. \quad 27 \overline{)36} (1 \\ \underline{-27} 9 (2 \\ \underline{9} 27 (3 \\ \underline{-27} 0 \\ 0 \end{array}$$

$$\text{HCF} = 9$$

$$\begin{array}{r} 4. \quad 24 \overline{)87} (3 \\ \underline{-72} 15 (1 \\ \underline{15} 24 (1 \\ \underline{-15} 9 (1 \\ \underline{9} 15 (1 \\ \underline{-9} 6 (1 \\ \underline{6} 9 (1 \\ \underline{-6} 3 (2 \\ \underline{3} 6 (2 \\ \underline{-6} 0 \\ 0 \end{array}$$

$$\text{HCF} = 3$$

$$\begin{array}{r} 5. \quad 120 \overline{)225} (1 \\ \underline{-120} 105 (1 \\ \underline{105} 120 (1 \\ \underline{-105} 15 (1 \\ \underline{15} 105 (7 \\ \underline{-105} 0 \\ 0 \end{array}$$

$$\begin{array}{r} 6. \quad 15 \overline{)24} (1 \\ \underline{-15} 9 (1 \\ \underline{9} 15 (1 \\ \underline{-9} 6 (1 \\ \underline{6} 9 (1 \\ \underline{-6} 3 (2 \\ \underline{3} 6 (2 \\ \underline{-6} 0 \\ 0 \end{array}$$

$$\text{HCF} = 3$$

$$\text{HCF} = 5$$

Practice time 4.4

A 1. $496 \overline{)868} (1$

$$\begin{array}{r} -496 \\ \hline \end{array}$$

$$\begin{array}{r} 372 \overline{)496} (1 \\ \hline \end{array}$$

$$\begin{array}{r} -372 \\ \hline \end{array}$$

$$\begin{array}{r} 124 \overline{)372} (3 \\ \hline \end{array}$$

$$\text{HCF} = 124 \quad \begin{array}{r} -372 \\ \hline 0 \end{array}$$

$$124 \overline{)1116} (9$$

$$\begin{array}{r} -1116 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ \hline \end{array}$$

2. $115 \overline{)230} (2$

$$\begin{array}{r} -230 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ \hline \end{array}$$

$115 \overline{)345} (3$

$$\begin{array}{r} -345 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ \hline \end{array}$$

$$\text{HCF} = 115$$

3. $15 \overline{)36} (2$

$$\begin{array}{r} -30 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \overline{)15} (2 \\ \hline \end{array}$$

$$\begin{array}{r} -12 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \overline{)6} (2 \\ \hline \end{array}$$

$$\text{HCF} = 1 \quad \begin{array}{r} -6 \\ \hline 0 \end{array}$$

$3 \overline{)40} (13$

$$\begin{array}{r} -3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \hline \end{array}$$

$$\begin{array}{r} -9 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \overline{)3} (3 \\ \hline \end{array}$$

$$\begin{array}{r} -3 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ \hline \end{array}$$

4. $180 \overline{)252} (1$

$$\begin{array}{r} -180 \\ \hline \end{array}$$

$$\begin{array}{r} 72 \overline{)180} (2 \\ \hline \end{array}$$

$$\begin{array}{r} -144 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \overline{)72} (2 \\ \hline \end{array}$$

$$\text{HCF} = 36 \quad \begin{array}{r} -72 \\ \hline 0 \end{array}$$

$36 \overline{)576} (16$

$$\begin{array}{r} -36 \downarrow \\ \hline \end{array}$$

$$\begin{array}{r} 216 \\ \hline \end{array}$$

$$\begin{array}{r} -216 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ \hline \end{array}$$

B 1.

$$\begin{array}{r|l} 2 & 36 \\ \hline \end{array}$$

$$\begin{array}{r|l} 2 & 18 \\ \hline \end{array}$$

$$\begin{array}{r|l} 3 & 9 \\ \hline \end{array}$$

$$\begin{array}{r|l} 3 & 3 \\ \hline \end{array}$$

$$\begin{array}{r|l} & 1 \\ \hline \end{array}$$

$$36 = 2 \times 2 \times 3 \times 3$$

$$\begin{array}{r|l} 2 & 72 \\ \hline \end{array}$$

$$\begin{array}{r|l} 2 & 36 \\ \hline \end{array}$$

$$\begin{array}{r|l} 2 & 18 \\ \hline \end{array}$$

$$\begin{array}{r|l} 3 & 9 \\ \hline \end{array}$$

$$\begin{array}{r|l} 3 & 3 \\ \hline \end{array}$$

$$\begin{array}{r|l} & 1 \\ \hline \end{array}$$

$$72 = 2 \times 2 \times 2 \times 3 \times 3$$

LCM by prime factorisation

$$= 2 \times 2 \times 3 \times 3 \times 5 \times 2 = 360$$

$$\begin{array}{r|l} 2 & 60 \\ \hline \end{array}$$

$$\begin{array}{r|l} 2 & 30 \\ \hline \end{array}$$

$$\begin{array}{r|l} 3 & 15 \\ \hline \end{array}$$

$$\begin{array}{r|l} 5 & 5 \\ \hline \end{array}$$

$$\begin{array}{r|l} & 1 \\ \hline \end{array}$$

$$60 = 2 \times 2 \times 3 \times 5$$

2.

5		15
3		3
		1

 $15 = 3 \times 5$

2		20
2		10
5		5
		1

 $20 = 2 \times 2 \times 5$

5		25
5		5
		1

 $25 = 5 \times 5$

5		35
7		7
		1

 $35 = 5 \times 7$

LCM by prime factorisation = $3 \times 5 \times 2 \times 2 \times 5 \times 7$
 $= 2100$

3.

2		48
2		24
2		12
2		6
3		3
		1

 $48 = 2 \times 2 \times 2 \times 2 \times 3$

2		64
2		32
2		16
2		8
2		4
2		2
		1

 $64 = 2 \times 2 \times 2 \times 2 \times 2 \times 2$

2		72
2		36
2		18
3		9
3		3
		1

 $72 = 2 \times 2 \times 2 \times 3 \times 3$

3		96
2		32
2		16
2		8
2		4
2		2
		1

 $96 = 3 \times 2 \times 2 \times 2 \times 2 \times 2$

LCM by prime factorisation = $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 3 = 576$

4.

2		26
13		13
		1

 $26 = 2 \times 13$

2		18
3		9
3		3
		1

 $18 = 2 \times 3 \times 3$

2		32
2		16
2		8
2		4
2		2
		1

 $32 = 2 \times 2 \times 2 \times 2 \times 2$

2		38
19		19
		1

 $38 = 2 \times 19$

LCM by prime factorisation = $2 \times 3 \times 3 \times 13 \times 2 \times 2 \times 2 \times 19$
 $= 71136$

C 1. 18, 24, 32

2	18, 24, 32
2	9, 12, 16
3	9, 6, 8
3	3, 2, 8
2	1, 2, 8
2	1, 1, 4,
2	1, 1, 2
	1, 1, 1

2. 40, 480, 560

2	40, 480, 560
2	1, 12, 14
2	1, 6, 7
3	1, 3, 7
7	1, 1, 7
	1, 1, 1

$$\text{LCM} = 40 \times 2 \times 2 \times 3 \times 7 = 3360$$

$$\text{LCM} = 2 \times 2 \times 3 \times 3 \times 2 \times 2 \times 2 = 288$$

3. 190, 228, 266

2	190, 228, 266
3	95, 114, 133
2	95, 38, 133
5	95, 19, 133
19	19, 19, 133
7	1, 1, 7
	1, 1, 1

$$\text{LCM} = 2 \times 3 \times 2 \times 5 \times 19 \times 7 = 7980$$

4. 84, 105, 147

2	84, 105, 147
2	42, 105, 147
2	14, 35, 49
3	7, 35, 49
7	1, 5, 7
	1, 5, 1
	1, 1, 1

$$\text{LCM} = 2 \times 3 \times 2 \times 7 \times 7 \times 5 = 2940$$

D Product of 2 numbers = $45 \times 60 = 2700$

HCF $\times$ LCM

5	45, 60
3	9, 12
3	3, 4
4	1, 4
	1, 1

5	45
3	9
3	3
	1

2	60
2	30
3	15
5	5
	1

$$\text{LCM} = 5 \times 3 \times 3 \times 4 = 180, \quad 45 = 5 \times 3 \times 3$$

$$60 = 2 \times 2 \times 5 \times 3 \quad \text{HCF} = 5 \times 3 = 15$$

$$\text{HCF} \times \text{LCM} = 180 \times 15 = 2700$$

$$\text{Product of 2 number} = \text{HCF} \times \text{LCM}$$

$$2700 = 2700 \quad \text{LHS} = \text{RHS} \quad \text{Hence verified}$$

E Product of 2 number = 2160

$$\text{HCF} = 12 \quad \text{LCM} = ?$$

$$\text{Product of 2 numbers} = \text{LCM} \times \text{HCF}$$

$$\text{LCM} = \text{Product of 2 numbers} / \text{HCF} = 2160 / 12 = 180$$

F HCF of 105 and 180

$$\begin{array}{r} 105 \overline{)180} (1 \\ -105 \\ \hline 75 \overline{)105} (1 \\ -75 \\ \hline 30 \overline{)75} (2 \\ -60 \\ \hline 15 \overline{)30} (2 \\ -30 \\ \hline 0 \end{array}$$

$$\text{HCF} = 15$$

G

$$\begin{array}{l|l} 2 & 2, 4, 6, 8, 10 \\ \hline 2 & 1, 2, 3, 4, 5 \\ \hline 2 & 1, 1, 3, 2, 5 \\ \hline 3 & 1, 1, 3, 1, 5 \\ \hline 5 & 1, 1, 1, 1, 5 \\ \hline & 1, 1, 1, 1, 1 \end{array}$$

$$\text{Greatest 5-digit number} = 99999 - 39 = 99960$$

$$\begin{array}{r} 120 \overline{)99999} (833 \\ -960 \downarrow \\ \hline 399 \downarrow \\ -360 \downarrow \\ \hline 399 \downarrow \\ -360 \downarrow \\ \hline 39 \end{array}$$

H

$$\begin{array}{l|l} 5 & 20, 25, 50 \\ \hline 5 & 4, 5, 10 \\ \hline 2 & 4, 1, 2 \\ \hline 2 & 2, 1, 1 \\ \hline & 1, 1, 1 \end{array}$$

$$\text{LCM} = 5 \times 5 \times 2 \times 2 = 100 + 9 = 109$$

I Multiples of 2 = 2, 4, 6, 8, 10

$$\text{Multiples of 3} = 3, 6, 9, 12$$

$$\text{Multiples of 6} = 6, 12, 18, 24$$

Yes, there is a common multiple that is 6.

Practice Time 5.1

A 1. $\frac{3}{8}$ of 48; $\frac{3}{8} \times 48 = 18$

2. $\frac{7}{8} \times 16 = 14$

3. $\frac{8}{11} \times 33 = 24$

4. $\frac{1}{6}$ of 60; $\frac{1}{6} \times 60 = 10$

5. $\frac{10}{11}$ of 1331; $\frac{10}{11} \times 1331 = 1210$

6. $\frac{4}{6}$ of 66 = $\frac{4}{6} \times 66 = 44$

7. $\frac{5}{6}$ of 30; $\frac{5}{6} \times 30 = 25$

8. $\frac{3}{5}$ of 100 = $\frac{3}{5} \times 100 = 60$

B Meera ate $\frac{3}{4}$ of 12 = $\frac{3}{4} \times 12 = 9$

No. of biscuits left = $12 - 9 = 3$

C Total number of apples = 40

Number of riped apples = $\frac{7}{10} \times 40 = 28$

Number of apples still to be ripen = $40 - 28 = 12$

D One hour = 60 minutes; $\frac{3}{4} \times 60 = 45$ minutes

E Total number of dresses = 21

Red colour dresses = $\frac{3}{7} \times 21 = 9$

F Total number of students = 40

Number of students who went for picnic = $\frac{4}{5} \times 40 = 32$

Number of students who did not went for icnic = $40 - 32 = 8$

Practice Time 5.2

A 1. Four equivalent fractions

$$\frac{3}{17} \times \frac{2}{2} = \frac{6}{34}; \frac{3}{17} \times \frac{3}{3} = \frac{9}{51}; \frac{3}{17} \times \frac{4}{4} = \frac{12}{68}$$

$$\frac{3}{17} \times \frac{5}{5} = \frac{15}{85}$$

2. Four equivalent fractions

$$\frac{6}{24} \times \frac{2}{2} = \frac{12}{48};$$

$$\frac{6}{24} \times \frac{4}{4} = \frac{24}{96};$$

$$\frac{6}{24} \times \frac{3}{3} = \frac{18}{72}$$

$$\frac{6}{24} \times \frac{5}{5} = \frac{30}{120}$$

3. Four equivalent fractions

$$\frac{21}{23} \times \frac{2}{2} = \frac{42}{46};$$

$$\frac{21}{23} \times \frac{4}{4} = \frac{84}{92};$$

$$\frac{21}{23} \times \frac{3}{3} = \frac{63}{69}$$

$$\frac{21}{23} \times \frac{5}{5} = \frac{105}{115}$$

4. Four equivalent fractions

$$\frac{4}{13} \times \frac{2}{2} = \frac{8}{26};$$

$$\frac{4}{13} \times \frac{4}{4} = \frac{16}{52};$$

$$\frac{4}{13} \times \frac{3}{3} = \frac{12}{39}$$

$$\frac{4}{13} \times \frac{5}{5} = \frac{20}{65}$$

5. $\frac{11}{21} \times \frac{2}{2} = \frac{22}{42};$

$$\frac{11}{21} \times \frac{4}{4} = \frac{44}{84};$$

$$\frac{11}{21} \times \frac{3}{3} = \frac{33}{63}$$

$$\frac{11}{21} \times \frac{5}{5} = \frac{55}{105}$$

B 1. $\frac{8}{15} \times \frac{5}{5} = \frac{40}{75}$

2. $\frac{2}{5} \times \frac{3}{3} = \frac{6}{15}$

3. $\frac{9}{11} \times \frac{13}{13} = \frac{117}{143}$

4. $\frac{5}{7} \times \frac{2}{2} = \frac{10}{14}$

C 1. $\frac{18}{81} \div \frac{3}{3} = \frac{6 \div 3}{27 \div 3} = \frac{2}{9}$

2. $\frac{35}{40} \div \frac{5}{5} = \frac{7}{8}$

3. $\frac{20}{28} \div \frac{2}{2} = \frac{10}{14} = \frac{5}{7}$

4. $\frac{15}{20} \div \frac{5}{5} = \frac{3}{4}$

5. $\frac{9}{18} \div \frac{3}{3} = \frac{3}{6} = \frac{1}{2}$

D $\frac{9}{10} \times \frac{2}{2} = \frac{18}{20}; \frac{9}{10} \times \frac{3}{3} = \frac{27}{30}; \frac{9}{10} \times \frac{4}{4} = \frac{36}{40}$

E 1. $\frac{6}{11} \times \frac{7}{7} = \frac{42}{77}$

2. $\frac{6}{11} \times \frac{5}{5} = \frac{30}{55}$

F $\frac{54}{63} = \frac{6}{7}$

$$1. \quad \frac{6}{7} \times \frac{15}{15} = \frac{90}{105}$$

$$2. \quad \frac{6}{7} \times \frac{18}{18} = \frac{108}{126}$$

$$\text{G } 1. \quad 9\frac{2}{7} = \frac{65}{7}$$

$$2. \quad 2\frac{5}{7} = \frac{19}{7}$$

$$3. \quad 6\frac{2}{3} = \frac{20}{3}$$

$$4. \quad 7\frac{2}{9} = \frac{65}{9}$$

$$5. \quad 9\frac{12}{13} = \frac{129}{13}$$

$$\text{H } 1. \quad \begin{array}{r} 17 \\ 3 \overline{) 17} 5 \\ \underline{-15} \\ 2 \end{array} = 5\frac{2}{3}$$

$$2. \quad \begin{array}{r} 25 \\ 4 \overline{) 25} 6 \\ \underline{-24} \\ 1 \end{array} = 6\frac{1}{4}$$

$$3. \quad \begin{array}{r} 18 \\ 5 \overline{) 18} 3 \\ \underline{-15} \\ 3 \end{array} = 3\frac{3}{5}$$

$$4. \quad \begin{array}{r} 29 \\ 9 \overline{) 29} 3 \\ \underline{-27} \\ 2 \end{array} = 3\frac{2}{9}$$

$$5. \quad \begin{array}{r} 36 \\ 7 \overline{) 36} 5 \\ \underline{-35} \\ 1 \end{array} = 5\frac{1}{7}$$

$$\text{I } 1. \quad \frac{7}{8}, \frac{12}{16} = \text{Not equivalent} \quad 2. \quad \frac{6}{13}, \frac{30}{52} = \text{Not equivalent}$$

$$3. \quad \frac{11}{15}, \frac{44}{45} = \text{Not equivalent}$$

$$4. \quad \frac{5}{6}, \frac{15}{18}; \frac{5}{6} \times \frac{3}{3} = \frac{15}{18} = \text{Equivalent}$$

$$5. \quad \frac{2}{3}, \frac{8}{12}; \frac{2}{3} \times \frac{4}{4} = \frac{8}{12} = \text{Equivalent}$$

Practice Time 5.3

$$\text{A } 1. \quad \frac{13}{84} = \text{Yes, it is in the simplest form.}$$

$$2. \quad \frac{7}{11} \text{ Yes, it is in the simplest form.}$$

$$3. \quad \frac{8}{26} = \frac{4}{13}$$

$$4. \quad \frac{25}{36} \text{ Yes, it is in the simplest form.}$$

$$5. \quad \frac{87}{116} \text{ yes, it is in the simplest form.}$$

6. $\frac{13}{221} = \frac{1}{17}$
- B** 1. $\frac{16}{20} = \frac{4}{5}$
3. $\frac{64}{80} = \frac{4}{5}$
5. $\frac{10}{35} = \frac{2}{7}$
7. $\frac{48}{60} = \frac{4}{5}$
9. $\frac{12}{18} = \frac{2}{3}$
11. $\frac{36}{108} = \frac{1}{3}$
13. $\frac{12}{15} = \frac{4}{5}$
15. $\frac{72}{80} = \frac{9}{10}$
17. $\frac{63}{81} = \frac{7}{9}$

2. $\frac{27}{24} = \frac{9}{8}$
4. $\frac{32}{40} = \frac{4}{5}$
6. $\frac{38}{95} = \frac{2}{5}$
8. $\frac{76}{95} = \frac{4}{5}$
10. $\frac{9}{45} = \frac{1}{5}$
12. $\frac{3}{15} = \frac{1}{5}$
14. $\frac{40}{72} = \frac{5}{9}$
16. $\frac{55}{77} = \frac{5}{7}$
18. $\frac{4}{36} = \frac{1}{9}$

Practice Time 5.4

- A** 1. $\frac{3}{5} > \frac{1}{5}$
4. $\frac{3}{17} = \frac{3}{17}$
- B** 1. $\frac{11}{12} > \frac{11}{13}$
4. $\frac{6}{5} = \frac{6}{5}$
- C** 1. $\frac{2}{3}$ and $\frac{1}{4}$

2. $\frac{3}{12} < \frac{5}{12}$

5. $\frac{8}{9} > \frac{7}{11}$

2. $\frac{7}{15} < \frac{7}{11}$

5. $\frac{9}{22} < \frac{9}{20}$

3. $\frac{9}{11} > \frac{6}{11}$

6. $\frac{2}{3} > \frac{1}{3}$

3. $\frac{8}{21} > \frac{8}{27}$

6. $\frac{10}{21} < \frac{10}{17}$

LCM of 3 and 4 = 12

$$\frac{2}{3} \times \frac{4}{4} = \frac{8}{12}; \quad \frac{1}{4} \times \frac{3}{3} = \frac{3}{12}$$

$$\therefore \frac{8}{12} > \frac{3}{12}$$

2. $\frac{1}{3}$ and $\frac{4}{8}$ LCM of 3 and 8 = 24

$$\frac{1}{3} \times \frac{8}{8} = \frac{8}{24}; \frac{4}{8} \times \frac{3}{3} = \frac{12}{24} \quad \therefore \frac{8}{24} < \frac{12}{24}$$

3. $\frac{3}{4}$ and $\frac{5}{6}$ LCM of 4 and 6 = 12

$$\frac{3}{4} \times \frac{3}{3} = \frac{9}{12}; \frac{5}{6} \times \frac{2}{2} = \frac{10}{12}$$

$$\therefore \frac{9}{12} < \frac{10}{12}$$

4. $\frac{5}{7}$ and $\frac{7}{9}$ LCM of 7 and 9 = 63

$$\frac{5}{7} \times \frac{9}{9} = \frac{45}{63}; \frac{7}{9} \times \frac{7}{7} = \frac{49}{63}$$

$$\therefore \frac{45}{63} < \frac{49}{63}$$

5. $\frac{11}{13}$ and $\frac{14}{17}$ LCM of 13 and 17 is 221

$$\frac{11}{13} \times \frac{17}{17} = \frac{187}{221}; \frac{14}{17} \times \frac{13}{13} = \frac{182}{221}$$

$$\therefore \frac{187}{221} > \frac{182}{221}$$

6. $\frac{6}{7}$ and $\frac{7}{21}$ LCM of 7 and 21 = 81

$$\frac{6}{7} \times \frac{3}{3} = \frac{18}{21}; \frac{7}{21} \times \frac{1}{1} = \frac{7}{21}$$

$$\therefore \frac{18}{21} > \frac{7}{21}$$

Practice Time 5.5

A 1. $\frac{2}{3}$ and $\frac{1}{5}$ LCM of 3 and 5 = 15

$$\frac{2}{3} + \frac{1}{5} = \frac{10+3}{15} = \frac{13}{15}$$

2. $\frac{3}{4}$ and $\frac{1}{6}$ LCM of 4 and 6 = 12

$$\frac{3}{4} + \frac{1}{6} = \frac{9+2}{12} = \frac{11}{12}$$

$$3. \quad \frac{4}{15} \text{ and } \frac{7}{15} \qquad \frac{4}{15} + \frac{7}{15} = \frac{11}{15}$$

$$4. \quad \frac{3}{11} \text{ and } \frac{5}{11} \qquad \frac{3}{11} + \frac{5}{11} = \frac{8}{11}$$

$$5. \quad \frac{1}{3}, \frac{1}{3} \text{ and } \frac{1}{5} \qquad \text{LCM of 3 and 5 is 15}$$

$$\frac{1}{3} + \frac{1}{3} + \frac{1}{5} = \frac{5+5+3}{15} = \frac{13}{15}$$

$$B \quad 1. \quad \frac{3}{11} + \frac{4}{11} + \frac{5}{11} = \frac{12}{11} = 1\frac{1}{11}$$

$$2. \quad \frac{2}{15} + \frac{11}{15} + \frac{8}{15} = \frac{21}{15} = \frac{7}{5} = 1\frac{2}{5}$$

$$3. \quad \frac{7}{16} + \frac{9}{16} + \frac{13}{16} = \frac{29}{16} = 1\frac{13}{16}$$

$$4. \quad \frac{4}{19} + \frac{1}{19} + \frac{9}{19} = \frac{14}{19}$$

$$5. \quad \frac{11}{20} + \frac{13}{20} + \frac{7}{20} = \frac{31}{20} = 1\frac{11}{20}$$

$$6. \quad \frac{2}{9} + \frac{4}{9} + \frac{3}{9} = \frac{9}{9} = 1$$

$$7. \quad 7 + \frac{2}{3} = \frac{21+2}{3} = \frac{23}{3} = 7\frac{2}{3}$$

$$8. \quad 5 + \frac{3}{4} + \frac{1}{2} = \frac{20+3+2}{4} = \frac{25}{4} = 6\frac{1}{4}$$

$$9. \quad \frac{3}{11} + 2 + \frac{9}{22} = \frac{6+44+9}{22} = \frac{59}{22} = 2\frac{15}{22}$$

Practice Time 5.6

$$A \quad 1. \quad \frac{4}{9} - \frac{2}{9} = \frac{2}{9}$$

$$2. \quad \frac{8}{15} - \frac{4}{15} = \frac{4}{15}$$

$$3. \quad \frac{6}{13} - \frac{4}{13} = \frac{2}{13}$$

$$4. \quad \frac{7}{7} - \frac{1}{7} = \frac{6}{7}$$

$$5. \quad \frac{4}{5} - \frac{3}{10} = \frac{8-3}{10} = \frac{5}{10} = \frac{1}{2}$$

$$6. \frac{12}{16} - \frac{15}{24} = \frac{36-30}{48} = \frac{6}{48} = \frac{1}{8}$$

$$7. \frac{9}{11} - \frac{10}{22} = \frac{18-10}{22} = \frac{8}{22} = \frac{4}{11}$$

$$\mathbf{B} \quad 1. \frac{5}{6} - \frac{1}{2} = \frac{5-3}{6} = \frac{2}{6} = \frac{1}{3}$$

$$2. \frac{2}{3} - \frac{8}{15} = \frac{10-8}{15} = \frac{2}{15}$$

$$3. 4 - 2\frac{1}{2}; 4 - \frac{5}{2} = \frac{8-5}{2} = \frac{3}{2} = 1\frac{1}{2}$$

$$4. 2\frac{3}{11} - 1\frac{5}{11} = \frac{25}{11} - \frac{16}{11} = \frac{9}{11}$$

$$5. 4\frac{3}{4} - 3 = \frac{19}{4} - 3 = \frac{19-12}{4} = \frac{7}{4} = 1\frac{3}{4}$$

$$6. 5\frac{7}{10} - 3\frac{2}{15} = \frac{57}{10} - \frac{47}{15} = \frac{171-94}{30} = \frac{77}{30} = 2\frac{17}{30}$$

$$7. 16 - 4\frac{3}{4} = 16 - \frac{19}{4} = \frac{64-19}{4} = \frac{45}{4} = 11\frac{1}{4}$$

$$8. 5\frac{6}{37} - 2\frac{19}{37} = \frac{191}{37} - \frac{93}{37} = \frac{98}{37} = 2\frac{24}{37}$$

$$9. 9 - 2\frac{5}{21} = 9 - \frac{47}{21} = \frac{189-47}{21} = \frac{142}{21} = 6\frac{16}{21}$$

$$10. 8\frac{9}{23} - 5 = \frac{193}{23} - 5 = \frac{193-115}{23} = \frac{78}{23} = 3\frac{9}{23}$$

$$11. 50 - \frac{49}{50} = \frac{2500-49}{50} = \frac{2451}{50} = 49\frac{1}{50}$$

$$12. \frac{24}{25} - \frac{71}{75} = \frac{72-71}{75} = \frac{1}{75}$$

Practice Time 5.7

$$\mathbf{A} \quad 1. 3 \times \frac{10}{7} = \frac{30}{7} = 4\frac{2}{7}$$

$$2. \frac{1}{11} \times 9 = \frac{9}{11}$$

$$3. \frac{10}{11} \times 4 = \frac{40}{11} = 3\frac{7}{11}$$

$$4. 11 \times \frac{4}{8} = \frac{4}{8} = \frac{22}{4} = \frac{11}{2} = 5\frac{1}{2}$$

$$5. \frac{5}{3} \times 5 = \frac{25}{3} = 8\frac{1}{3}$$

$$6. \frac{3}{5} \times 2 = \frac{6}{5} = 1\frac{1}{5}$$

$$7. 12 \times \frac{7}{2} = 42$$

$$8. \frac{11}{8} \times 4 = \frac{11}{2} = 5\frac{1}{2}$$

$$9. 18 \times \frac{3}{2} = 27$$

$$B \quad 1. \frac{4}{10} \times \frac{12}{8} = \frac{3}{5}$$

$$2. \frac{9}{7} \times \frac{7}{10} = \frac{9}{10}$$

$$3. \frac{12}{11} \times \frac{2}{11} = \frac{24}{121}$$

$$4. \frac{12}{5} \times \frac{1}{2} = \frac{12}{10} = 1\frac{1}{5}$$

$$5. \frac{1}{12} \times \frac{3}{8} = \frac{1}{32}$$

$$6. \frac{1}{7} \times \frac{1}{11} = \frac{1}{77}$$

$$7. \frac{11}{6} \times \frac{2}{4} = \frac{11}{12}$$

$$8. \frac{8}{5} \times \frac{11}{5} = \frac{88}{25} = 3\frac{13}{25}$$

$$9. \frac{2}{6} \times \frac{3}{12} = \frac{1}{12}$$

$$C \quad 1. \frac{2}{3} \times 4\frac{1}{2} = \frac{2}{3} \times \frac{9}{2} = 3$$

$$2. 4\frac{3}{7} \times 1\frac{3}{4} = \frac{31}{7} \times \frac{7}{4} = \frac{31}{4} = 7\frac{3}{4}$$

$$3. 8\frac{2}{5} \times 2\frac{5}{16} = \frac{42}{5} \times \frac{37}{168} = \frac{777}{40} = 19\frac{17}{40}$$

$$4. 10\frac{3}{7} \times 13\frac{3}{4} = \frac{73}{4} \times \frac{55}{7} = \frac{4015}{28} = 143\frac{11}{28}$$

$$5. 9\frac{8}{15} \times 4\frac{2}{7} = \frac{143}{15} \times \frac{30}{7} = \frac{286}{7} = 40\frac{6}{7}$$

$$6. 6\frac{8}{17} \times 2\frac{4}{33} = \frac{110}{17} \times \frac{70}{333} = \frac{700}{51} = 13\frac{37}{51}$$

$$7. 4\frac{9}{20} \times 4\frac{1}{16} = \frac{89}{20} \times \frac{65}{16} = \frac{1157}{64} = 18\frac{5}{64}$$

$$8. 5\frac{2}{7} \times 1\frac{9}{29} = \frac{37}{7} \times \frac{38}{29} = \frac{1406}{203} = 6\frac{188}{203}$$

$$9. \frac{8}{9} \times \frac{3}{5} \times \frac{7}{16} = \frac{7}{30}$$

$$10. \frac{15}{22} \times \frac{11}{22} \times \frac{7}{11} = \frac{105}{484}$$

$$11. 9\frac{3}{5} \times 5\frac{5}{10} \times 1\frac{8}{34} = \frac{48}{5} \times \frac{55}{10} \times \frac{42}{34} = \frac{5544}{85} = 65\frac{19}{85}$$

$$12. 7\frac{9}{13} \times 4\frac{3}{16} \times 7\frac{3}{11} = \frac{100}{13} \times \frac{67}{16} \times \frac{80}{11} = \frac{3350}{143} = 234\frac{38}{143}$$

Practice time 5.8

A 1. $14 \div \frac{10}{7} = 14 \times \frac{7}{105} = \frac{49}{5} = 9\frac{4}{5}$

2. $2 \div \frac{1}{7} = 2 \times 7 = 14$

4. $15 \div \frac{5}{2} = 15 \times \frac{2}{5} = 6$

6. $2 \div \frac{2}{3} = 2 \times \frac{3}{2} = 3$

8. $10 \div \frac{10}{3} = 10 \times \frac{3}{10} = 3$

B 1. $\frac{2}{7} \div \frac{11}{2} = \frac{2}{7} \times \frac{2}{11} = \frac{4}{77}$

3. $\frac{6}{12} \div \frac{8}{7} = \frac{6}{12} \times \frac{7}{8} = \frac{7}{16}$

5. $\frac{11}{10} \div \frac{8}{3} = \frac{11}{10} \times \frac{3}{8} = \frac{33}{80}$

6. $\frac{1}{4} \times \frac{9}{11} = \frac{9}{44} = \frac{1}{4} \times \frac{9}{11} = \frac{9}{44}$

7. $\frac{5}{10} \div \frac{10}{3} = \frac{5}{10} \times \frac{3}{10} = \frac{3}{20}$

8. $\frac{3}{5} \div \frac{8}{11} = \frac{3}{5} \times \frac{11}{8} = \frac{33}{40}$

3. $5 \div \frac{4}{12} = 5 \times \frac{12}{4} = 15$

5. $15 \div \frac{9}{9} = 15 \times \frac{9}{9} = 15$

7. $9 \div \frac{3}{10} = 9 \times \frac{10}{3} = 30$

2. $\frac{1}{6} \div \frac{1}{10} = \frac{1}{6} \times 10 = \frac{5}{3} = 1\frac{2}{3}$

4. $\frac{6}{4} \div \frac{2}{7} = \frac{6}{4} \times \frac{7}{2} = \frac{21}{4} = 5\frac{1}{4}$

Practice Time 5.9

1. Price of one ticket = ₹ $5\frac{1}{2} = \frac{11}{2}$

Price of 30 tickets = ₹ $\frac{11}{2} \times 30 = 165$

Hence ₹165 is the cost of 30 tickets

2. Total income = ₹2000

Amount spent on food = $\frac{5}{8} \times 2000 = ₹1250$

Hence ₹1250 was spent on food

3. Capacity of oil container = $18\frac{5}{6} l = \frac{113}{6} l$

$$\text{Capacity of oil used} = \frac{3}{5}l$$

$$\text{Quantity oil left} = \frac{113}{6} - \frac{3}{5} = \frac{565 - 18}{30} = \frac{547}{30} = 18\frac{7}{30}l$$

Hence $18\frac{7}{30}l$ of oil was left

$$4. \text{ Price of one book} = ₹10\frac{2}{5} = ₹\frac{52}{5}$$

$$\text{Price of 25 books} = ₹\frac{52}{5} \times 25 = 260$$

Hence, ₹ 260 is the price of 25 books

$$5. \text{ Required Number} = 1\frac{1}{2} \div 7\frac{2}{5} = \frac{3}{2} \div \frac{37}{5} = \frac{3}{2} \times \frac{5}{37} = \frac{15}{74}$$

CHAPTER - 6

Practice Time 6.1

- $28 - 3 \times 5 + 4 = 28 - 15 + 4 = 32 - 15 = 17$
- $8 - 30 \div 6 + 7 = 8 - 5 + 7 = 15 - 5 = 10$
- $15 - 2 \times 5 + 9 = 15 - 10 + 9 = 24 - 10 = 14$
- $30 \div 6 + 8 \times 3 - 10 = 5 + 24 - 10 = 29 - 10 = 19$
- $8 - 0 \div 5 = 8 - 0 = 8$
- $8 \times 8 - 6 \times 6 = 64 - 36 = 28$
- $5 \div 5 + 6 \times 6 = 1 + 36 = 37$
- $6 \times 5 - 60 \div 15 = 30 - 4 = 26$
- $36 \div 6 + 3 \times 2 = 6 + 6 = 12$
- $21 \div 7 + 16 - 5 \times 3 = 3 + 16 - 15 = 19 - 15 = 4$
- $20 \div 4 + 5 = 5 + 5 = 10$
- $28 - 25 \div 5 = 28 - 5 = 23$

Practice Time 6.2

- $45 \div (15 \times 3) = 45 \div 45 = 1$
- $(12 \div 4) + 3 = 3 + 3 = 6$
- $(3 + 4) \times 5 = 7 \times 5 = 35$
- $50 \div [(25 \div 5) \times 7] = 50 \div [5 \times 7] = 50 \div 35 = \frac{50}{35} = \frac{10}{7} = 1\frac{3}{7}$
- $(8 + 7) \div (3 + 2) = 15 \div 5 = 3$

$$6. \quad 5 + (16 \div 8) = 5 + 2 = 7$$

$$7. \quad 16 \div [2 + (42 \div 7)] = 16 \div [2 + 6] = 16 \div 8 = 2$$

$$8. \quad 7 \div (10 - 3) = 7 \div 7 = 1$$

$$9. \quad (18 - 3) \div 5 = 15 \div 5 = 3$$

Practice Time 6.3

$$1. \quad \frac{4}{5} \text{ of } \left(\frac{4}{9} + \frac{2}{3} \right) \div 2\frac{2}{3}$$

$$= \frac{4}{5} \text{ of } \left(\frac{4+6}{9} \right) \div \frac{8}{3} = \frac{4}{5} \text{ of } \frac{10}{9} \div \frac{8}{3} = \frac{4}{5} \text{ of } \frac{10}{9} \div \frac{8}{3} = \frac{8}{9} \div \frac{8}{3}$$

$$= \frac{8}{9} \times \frac{3}{8} = \frac{1}{3}$$

$$2. \quad 2\frac{2}{5} \left[1\frac{2}{9} \div \left\{ 1\frac{7}{15} + \left(4\frac{3}{5} - 1\frac{4}{5} \right) \right\} \right]$$

$$= \frac{12}{5} \left[\frac{11}{9} \div \left\{ \frac{22}{15} + \left(\frac{23}{5} - \frac{9}{5} \right) \right\} \right] = \frac{12}{5} \left[\frac{11}{9} \div \left\{ \frac{22}{15} + \frac{14}{5} \right\} \right]$$

$$= \frac{12}{5} \left[\frac{11}{9} \div \left\{ \frac{22}{15} + \frac{14}{5} \right\} \right] = \frac{12}{5} \left\{ \frac{11}{9} \div \left\{ \frac{22+42}{15} \right\} \right\}$$

$$= \frac{12}{5} \left\{ \frac{11}{9} \div \frac{64}{15} \right\} = \frac{12}{5} \left[\frac{11}{9} \times \frac{15}{64} \right] = \frac{12}{5} \times \frac{55}{192} = \frac{11}{16}$$

$$3. \quad 4\frac{1}{2} \times 4\frac{2}{3} \div \left(5\frac{1}{2} + 3\frac{1}{4} \right)$$

$$= \frac{9}{2} \times \frac{14}{3} \div \left(\frac{11}{2} + \frac{13}{4} \right) = 21 \div \left(\frac{11}{2} + \frac{13}{4} \right) = 21 \div \left(\frac{22+13}{4} \right)$$

$$= 21 \div \frac{35}{4} = \frac{21 \times 4}{35} = \frac{12}{5} = 2\frac{2}{5}$$

$$4. \quad \left(1\frac{7}{8} \div 1\frac{1}{2} \right) \text{ of } \left(8\frac{1}{3} \div 1\frac{2}{3} \right)$$

$$= \left(\frac{15}{8} \div \frac{3}{2} \right) \text{ of } \left(\frac{25}{3} \div \frac{5}{3} \right) = \left(\frac{15}{8} \times \frac{2}{3} \right) \text{ of } \left(\frac{25}{3} \times \frac{3}{5} \right)$$

$$= \frac{5}{4} \text{ of } 5 = \frac{25}{4} = 6\frac{1}{4}$$

$$5. \quad 2\frac{1}{5} + \left(6\frac{1}{5} \div \frac{4}{5} \right) + \left(3\frac{1}{7} \text{ of } \frac{2}{11} \right) \div 1\frac{3}{7}$$

$$\begin{aligned}
&= \frac{11}{5} + \left(\frac{31}{5} \div \frac{4}{5} \right) + \left(\frac{22}{7} \text{ of } \frac{2}{11} \right) \div \frac{10}{7} \\
&= \frac{11}{5} + \left(\frac{31}{5} \times \frac{5}{4} \right) + \left(\frac{22}{7} \times \frac{2}{11} \right) \div \frac{10}{7} \\
&= \frac{11}{5} + \frac{31}{4} + \frac{4}{7} \times \frac{7}{10} = \frac{11}{5} + \frac{31}{4} + \frac{2}{5} \\
&= \frac{44 + 155 + 8}{20} = \frac{207}{20} = 10 \frac{7}{20}
\end{aligned}$$

6. $3\frac{4}{5} \text{ of } 3\frac{4}{7} \div \left(3\frac{3}{7} \div 2\frac{1}{2} \right)$

$$\begin{aligned}
&= \frac{19}{5} \text{ of } \frac{25}{7} \div \left(\frac{27}{7} \div \frac{5}{2} \right) = \frac{19}{5} \text{ of } \frac{25}{7} \div \left(\frac{24}{7} \times \frac{2}{5} \right) \\
&= \frac{19}{5} \times \frac{25}{7} \div \left(\frac{24}{7} \times \frac{2}{5} \right) = \frac{95}{7} \times \frac{7 \times 5}{24 \times 2} = \frac{475}{48} = 9 \frac{43}{48}
\end{aligned}$$

CHAPTER- 7

Practice Time 7.1

- | | | |
|----------------------------------|-----------------------------------|-------------------------------|
| A 1. $\frac{3}{10} = 0.3$ | 2. $\frac{35}{100} = 0.35$ | 3. $\frac{4}{8} = 0.5$ |
| B 1. 0.15 | 2. 0.8 | 3. 0.495 |
| 4. 0.01 | 5. 0.42 | 6. 0.28 |
| 7. 0.978 | 8. 0.172 | |

Practice Time 7.2

- | | |
|------------------------------|-------------------------------|
| A 1. 863.9 <u>7</u> 9 | Place Value = $\frac{7}{100}$ |
| 2. 241. <u>6</u> 3 | Place Value = $\frac{6}{10}$ |
| 3. 12.8 <u>3</u> | Place value = $\frac{3}{100}$ |
| 4. 7. <u>6</u> 74 | Place Value = $\frac{6}{10}$ |
| 5. <u>6</u> 1.331 | Place value 60 |
| 6. 411. <u>7</u> | Place value = $\frac{7}{10}$ |

- | | | |
|----|----------------|-----------------------------|
| 7. | 23. <u>7</u> 9 | Place value $\frac{9}{100}$ |
| 8. | 0.3 <u>5</u> 2 | Place value $\frac{5}{100}$ |
| 9. | 6.5 <u>3</u> 2 | Place Value $\frac{3}{100}$ |

B 1. 101.010

One hundred one point zero one zero

2. 15.05

Fifteen point zero five

3. 2481.680

Two thousand four hundred eighty-one point six eight zero.

4. 785.191

Seven hundred eighty-five point one nine one.

5. 0.968

Zero point nine six eight

6. 62.123

Sixty two point one two three

7. 16.732

Sixteen point seven three two

8. 10.21

Ten point two one

9. 19.7

Nineteen point seven

C 1. $\frac{6}{10} = 0.6$

2. $\frac{32}{100} = 0.32$

3. $7\frac{5}{100} = \frac{705}{100} = 7.05$

4. $24\frac{47}{100} = \frac{2447}{100} = 24.47$

5. $18\frac{9}{1000} = \frac{18009}{1000} = 18.009$

6. $\frac{502}{1000} = 0.502$

7. $5\frac{8}{100} = \frac{508}{100} = 5.08$

8. $5\frac{7}{10} = \frac{57}{10} = 5.7$

9. $12\frac{1}{100} = \frac{1201}{100} = 12.01$

- D** 1. $9.08 = \frac{908}{100} = 9\frac{8}{100}$
2. $10.001 = \frac{10001}{1000} = 10\frac{1}{1000}$
3. $20.018 = \frac{20018}{1000} = 20\frac{18}{1000}$
4. $0.82 = \frac{82}{100}$
5. $10.59 = \frac{1059}{100} = 10\frac{59}{100}$
6. $2.25 = \frac{225}{100} = 2\frac{25}{100}$
7. $7.004 = \frac{7004}{1000} = 7\frac{4}{1000}$
8. $16.08 = \frac{1608}{100} = 16\frac{8}{100}$
9. $25.75 = \frac{2575}{100} = 25\frac{75}{100}$

Practice Time 7.3

- A** 1. $604.18 = 600 + 4 + 0.1 + 0.08$
 $600 + 4 + \frac{1}{10} + \frac{8}{100}$
 6 hundred + 4 ones + 1 tenth + 8 hundredths
2. $14.8 = 10 + 4 + 0.8$
 $10 + 4 + \frac{8}{10}$ or 1 ten + 4 ones + 8 tenths
3. $25.75 = 20 + 5 + 0.7 + 0.05$
 or $20 + 5 + \frac{7}{10} + \frac{5}{100}$
 or 2 tens + 5 ones + 7 tenths + 5 hundredths
4. $68.4 = 60 + 8 + 0.4 = 60 + 8 + \frac{4}{10}$
 $= 6 \text{ tens} + 8 \text{ ones} + 4 \text{ tenths}$
5. $695.008 = 600 + 90 + 5 + 0.008$
 $= 6 \text{ hundreds} + 9 \text{ tens} + 5 \text{ ones} + 8 \text{ thousandths}$

6. $718.705 = 700 + 10 + 8 + 0.7 + 0.005$

$$= 700 + 10 + 8 + \frac{7}{10} + \frac{5}{1000}$$

= 7 hundreds + 10 tens + 8 ones + 7 tenths + 5 thousandths

- B** 1. $817.052 < 817.854$ 2. $217.121 < 711.35$
 3. $86.705 > 86.507$ 4. $17.54 < 17.546$
 5. $917.612 < 917.614$ 6. $625.861 < 728.753$
- C** 1. 3.05, 3.051, 3.058, 3.5, 3.55
 2. 9.567, 9.568, 9.586, 9.657, 9.769
 3. 5.861, 5.868, 6.85, 6.865, 8.65
 4. 0.202, 2.002, 2.012, 2.2, 2.22
- D** 1. 43.81, 43.80, 43.18, 43.08
 2. 18.528, 18.428, 18.324, 4.926
 3. 61.135, 61.13, 16.335, 16.31, 16.035
 4. 8.21, 8.201, 8.112, 8.1, 8.011
- E** 1. 105.145 2. 70.946
 3. 3708.56 4. 7069.739

Practice Time 7.4

A 1.
$$\begin{array}{r} 68.54 \\ + 192.08 \\ \hline 260.62 \end{array}$$

2.
$$\begin{array}{r} 115.425 \\ 11.862 \\ + 9.050 \\ \hline 136.337 \end{array}$$

3.
$$\begin{array}{r} 162.598 \\ 14.054 \\ 18.642 \\ + 112.001 \\ \hline 307.295 \end{array}$$

4.
$$\begin{array}{r} 102.360 \\ 7.054 \\ + 0.800 \\ \hline 110.214 \end{array}$$

5.
$$\begin{array}{r} 0.006 \\ 4.108 \\ + 19.005 \\ \hline 23.119 \end{array}$$

6.
$$\begin{array}{r} 4.602 \\ 20.003 \\ + 0.098 \\ \hline 24.703 \end{array}$$

$$\begin{array}{r} \text{B } 1. \quad 6.580 \\ 117.902 \\ + 54.860 \\ \hline 179.342 \end{array}$$

$$\begin{array}{r} 3. \quad 707.007 \\ 101.010 \\ 62.850 \\ + 12.240 \\ \hline 883.107 \end{array}$$

$$\begin{array}{r} 5. \quad 2.860 \\ 222.822 \\ 2.001 \\ + 22.221 \\ \hline 249.904 \end{array}$$

$$\begin{array}{r} \text{C } 1. \quad 717.007 \\ - 111.999 \\ \hline 605.008 \end{array}$$

$$\begin{array}{r} 3. \quad 842.574 \\ - 414.628 \\ \hline 427.946 \end{array}$$

$$\begin{array}{r} \text{D } 1. \quad 99.25 \\ - 68.72 \\ \hline 30.53 \end{array}$$

$$\begin{array}{r} 3. \quad 99.00 \\ - 0.86 \\ \hline 98.14 \end{array}$$

$$\begin{array}{r} 5. \quad 927.050 \\ - 117.101 \\ \hline 809.949 \end{array}$$

$$\begin{array}{r} 7. \quad 364.540 \\ - 361.117 \\ \hline 003.423 \end{array}$$

$$\begin{array}{r} 9. \quad 67.92 \\ - 12.89 \\ \hline 55.03 \end{array}$$

$$\begin{array}{r} 2. \quad 17.491 \\ 985.101 \\ 62.850 \\ + 117.540 \\ \hline 1182.982 \end{array}$$

$$\begin{array}{r} 4. \quad 825.100 \\ 62.961 \\ 60.102 \\ \hline 948.163 \end{array}$$

$$\begin{array}{r} 6. \quad 44.480 \\ 444.448 \\ 0.448 \\ + 0.484 \\ \hline 489.860 \end{array}$$

$$\begin{array}{r} 2. \quad 41.56 \\ - 24.98 \\ \hline 16.58 \end{array}$$

$$\begin{array}{r} 2. \quad 123.91 \\ - 122.05 \\ \hline 1.86 \end{array}$$

$$\begin{array}{r} 4. \quad 681.785 \\ - 225.420 \\ \hline 456.365 \end{array}$$

$$\begin{array}{r} 6. \quad 9.852 \\ - 0.560 \\ \hline 9.292 \end{array}$$

$$\begin{array}{r} 8. \quad 217.050 \\ - 198.981 \\ \hline 18.069 \end{array}$$

$$\begin{array}{r} \text{E } 1. \quad 0.5 \\ - 0.2 \\ \hline 0.3 \end{array}$$

$$\begin{array}{r} 2. \quad 5.324 \\ - 2.403 \\ \hline 2.921 \end{array}$$

$$\begin{array}{r} 3. \quad 0.59 \\ - 0.23 \\ \hline 0.36 \end{array}$$

$$\begin{array}{r} 4. \quad 2.8 \\ - 1.6 \\ \hline 1.2 \end{array}$$

F Required number = $97.84 - 71.48$

$$\begin{array}{r} 97.84 \\ - 71.48 \\ \hline 26.36 \end{array}$$

G Required number = $103.188.15$

$$\begin{array}{r} 103.188.15 \\ - 88.15 \\ \hline 14.95 \end{array}$$

$$\begin{array}{r} \text{H} \quad 567.000 \\ - 479.569 \\ \hline 087.431 \end{array}$$

I Total weight = $35.825 \text{ kg} + 37.215 \text{ kg}$

$$\begin{array}{r} 35.825 \\ + 37.215 \\ \hline 73.040 \end{array}$$

Hence, 73.040 kg is the total weight altogether

Practice Time 7.5

$$\begin{array}{r} \text{A } 1. \quad 11.2 \times 0.7 \\ 11.2 \\ \times 0.7 \\ \hline 78.4 \\ 0000 \\ \hline 7.84 \end{array}$$

$$\begin{array}{r} 2. \quad 0.111 \times 0.008 \\ 0.111 \\ \times 0.008 \\ \hline 0888 \\ 00000 \\ \hline + 000000 \\ \hline 0.000888 \end{array}$$

$$\begin{array}{r} 3. \quad 0.12 \times 0.12 \\ 0.12 \\ \times 0.12 \\ \hline 024 \\ 0120 \\ \hline + 00000 \\ \hline 0.0144 \end{array}$$

$$\begin{array}{r} 4. \quad 0.09 \times 0.09 \\ 0.09 \\ \times 0.09 \\ \hline 081 \\ 0000 \\ \hline + 00000 \\ \hline 0.0081 \end{array}$$

5. 10.1×0.2

$$\begin{array}{r} 10.1 \\ \times 0.2 \\ \hline 202 \\ + 0000 \\ \hline 02.02 \end{array}$$

6. 201×0.4

$$\begin{array}{r} 201 \\ \times 0.4 \\ \hline 804 \\ + 0000 \\ \hline 0.804 \end{array}$$

7. $0.8 \times 0.8 = 0.64$

$$\begin{array}{r} 0.8 \\ \times 0.8 \\ \hline 064 \\ + 0000 \\ \hline 00.64 \end{array}$$

8. 1.1×1.1

$$\begin{array}{r} 1.1 \\ \times 1.1 \\ \hline 11 \\ 110 \\ \hline 1.21 \end{array}$$

B 1. 193.45×2.5

$$\begin{array}{r} 193.45 \\ \times 2.5 \\ \hline 96725 \\ 386900 \\ \hline 483.625 \end{array}$$

2. 26.452×2.3

$$\begin{array}{r} 26.452 \\ \times 2.3 \\ \hline 79356 \\ 529040 \\ \hline 60.8396 \end{array}$$

3. 895.41

$$\begin{array}{r} 895.41 \\ \times 1.01 \\ \hline 89541 \\ 000000 \\ 8954100 \\ \hline 904.3641 \end{array}$$

4. 730.12

$$\begin{array}{r} 730.12 \\ \times 1.52 \\ \hline 146024 \\ 3650600 \\ + 7301200 \\ \hline 1109.7824 \end{array}$$

5. 183.31

$$\begin{array}{r} 183.31 \\ \times 3.11 \\ \hline 18331 \\ 183310 \\ + 5499300 \\ \hline 570.0941 \end{array}$$

6. 900.09

$$\begin{array}{r} 900.09 \\ \times 0.99 \\ \hline 810081 \\ 8100810 \\ + 0000000 \\ \hline 891.0891 \end{array}$$

Practice Time 7.6

1. $82.4 \div 25$

$$\begin{array}{r} 25 \overline{)82.400} \quad (3.296 \\ \underline{-75} \downarrow \downarrow \downarrow \\ 74 \downarrow \\ \underline{-50} \\ 240 \downarrow \\ \underline{-225} \\ 150 \\ \underline{-150} \\ 0 \end{array}$$

Q = 3.296

R = 0

2. $191.5 \div 5$

$$\begin{array}{r} 5 \overline{)191.5} \quad (38.3 \\ \underline{-15} \downarrow \\ -41 \downarrow \\ \underline{40} \downarrow \\ -15 \\ \underline{15} \\ 0 \end{array}$$

Q = 38.3

R = 0

3. $0.00042 \div 420 = 0.000001$

4. $51 \overline{)1020.102} \quad (20.002$

$$\begin{array}{r} -102 \downarrow \downarrow \downarrow \downarrow \\ 0102 \\ \underline{-102} \\ 0 \end{array}$$

Q = 20.002

R = 0

5. $8 \overline{)316.840} \quad (39.605$

$$\begin{array}{r} -24 \downarrow \downarrow \downarrow \downarrow \\ 76 \downarrow \\ -72 \downarrow \\ 48 \downarrow \\ -48 \downarrow \downarrow \\ 040 \\ \underline{-40} \\ 0 \end{array}$$

Q = 39.605

R = 0

6. $7800.78 \div 78 = 100.01$

Chapter - 8

Practice Time 8.1

A 1. c

2. g

3. d

4. a

5. f

6. b

7. e

B

Th

H

T

O

Tenths

Hundredths

Thousandths

	Place Value Prefix	Kilo-metre	Hecto-metre	Deca-metre	Metre	Deci-metre	Centi-metre	Milli-metre
1.		31	2	6	1	2	3	4
2.					9			125
3.					2	7	8	6
4.					8	7	6	

C

	Place Value Prefix	Kilo-gram	Hecto-gram	Deca-gram	Gram	Deci-gram	Centi-gram	Milli-gram
1.		6	9	7				
2.		2	9	3	6			
3.					6			715
4.					6			905

D Thousands Hundreds Tens Ones Tenths Hundredths Thousandths

	Place Value Prefix	Kilo-litre	Hecto-litre	Deca-litre	Litre	Deci-litre	Centi-litre	Milli-litre
1.		5	7	6	5			
2.					215			250
3.					6	7		13
4.					350			680

Practice Time 8.2**A 1.** 1 km = 100000 cm

$$0.45 \text{ km} = 0.45 \times 100000 \text{ cm} = 45000.00 \text{ cm} = 45000 \text{ cm}$$

2. 1 cm = 10 mm

$$13 \text{ cm} = 13 \times 10 \text{ mm} = 130 \text{ mm}$$

3. 1 m = 100 cm

$$190 \text{ cm} = (190 \div 100) \text{ m} = 1.9 \text{ m}$$

4. 10 mm = 1 cm

$$19 \text{ mm} = (19 \div 10) \text{ cm} = 1.9 \text{ cm}$$

5. 10 mm = 1 cm

$$96 \text{ mm} = (96 \div 10) \text{ cm} = 9.6 \text{ cm}$$

6. 1 cm = 10 mm

$$11.5 \text{ cm} = 11.5 \times 10 = 115 \text{ mm}$$

7. 10 mm = 1 cm**8.** 100 cm = 1 m

$$37 \text{ cm} = (37 \div 100) = 0.37 \text{ m}$$

9. $100 \text{ cm} = 1 \text{ m}$
 $0.17 \text{ cm} = (0.17 \div 100) = 0.0017 \text{ m}$
10. $10 \text{ cm} = 1 \text{ dm}$
 $87 \text{ cm} = (87 \div 10) = 8.7 \text{ dm}$
- B** 1. $1000 = 1 \text{ km}$
 $(1200 \div 1000) \text{ km} = 1.2 \text{ km}$
2. $1 \text{ dam} = 1000 \text{ cm}$
 $1.7 \text{ dam} = 1.7 \times 1000 \text{ cm} = 1700 \text{ cm}$
3. $1000 \text{ m} = 1 \text{ km}$
 $2042 \text{ m} = (2042 \div 1000) \text{ km} = 2.042 \text{ km}$
4. $1 \text{ km} = 1000 \text{ m}$
 $0.51 \text{ km} = 0.51 \times 1000 = 510 \text{ m}$
5. $1 \text{ km} = 1000 \text{ m}$
 $3.5 \text{ km} = 3.5 \times 1000 \text{ m} = 3500 \text{ m}$
- C** 1. $100 \text{ dam} = 1 \text{ km}$
 $8 \text{ dam} = 8 \div 100 = 0.08 \text{ km}$
2. $1 \text{ hm} = 100 \text{ m}$ $2 \text{ hm} = 2 \times 100 \text{ m} = 200 \text{ m}$
3. $1 \text{ dm} = 100 \text{ mm}$
4. $1 \text{ dam} = 100 \text{ dm}$
 $2 \text{ dam} = 2 \times 100 \text{ dm} = 200 \text{ dm}$
5. $1 \text{ km} = 100 \text{ dam}$
 $8 \text{ km} = 8 \times 100 \text{ dam} = 800 \text{ dam}$
6. $100 \text{ cm} = 1 \text{ dm}$
 $5 \text{ cm} = (5 \div 100) \text{ dm} = 0.05 \text{ dm}$
7. $100 \text{ cm} = 1 \text{ dm}$
 $9 \text{ cm} = (9 \div 10) \text{ dm} = 0.9 \text{ dm}$
8. $1 \text{ dam} = 100 \text{ dm}$
 $7 \text{ dam} = 7 \times 100 \text{ dm} = 700 \text{ dm}$
9. $1 \text{ dam} = 10000 \text{ mm}$
 $10 \text{ dam} = 10 \times 10000 \text{ mm} = 100000 \text{ mm}$
- D** 1. 20.4 m, 204 dm 2. 7.4 km, 7400 m
3. 5.12 m, 512 cm 4. 9.1 m, 910 cm

5. 8.02 hm, 8020 dm

Practice Time 8.3

- A** 1. b 2. d 3. f 4. e
5. c 6. h 7. i 8. l
9. g 10. k 11. j 12. a

- B** 1. $1 \text{ kg} = 1000 \text{ g}$
 $2.5 \text{ kg} = 2.5 \times 1000 \text{ g} = 2500 \text{ g}$
2. $1 \text{ kg} = 1000 \text{ g}$
 $0.425 \text{ kg} = 0.425 \times 1000 \text{ g} = 425 \text{ g}$
3. $1 \text{ kg} = 1000 \text{ g}$
 $1.7 \text{ kg} = 1.7 \times 1000 \text{ g} = 1700 \text{ g}$
4. $1 \text{ kg} = 1000 \text{ g}$
 $9.25 \text{ kg} = 9.25 \times 1000 \text{ g} = 9250 \text{ g}$

- C** 1. $1 \text{ g} = \frac{1}{1000} \text{ kg}$ $1240 \text{ g} = \frac{1240}{1000} \text{ g} = 1.240 \text{ kg}$
2. $1 \text{ g} = \frac{1}{1000} \text{ kg}$ $525 \text{ g} = \frac{525}{100} \text{ kg} = 0.525 \text{ kg}$
3. $1 \text{ g} = \frac{1}{1000} \text{ kg}$ $1475 \text{ g} = \frac{1475}{1000} \text{ kg} = 1.475 \text{ kg}$
4. $1 \text{ g} = \frac{1}{1000} \text{ kg}$ $250 \text{ g} = \frac{250}{1000} \text{ kg} = 0.250 \text{ g}$

- D** 1. $1 \text{ g} = \frac{1}{1000} \text{ kg}$ $8 \text{ g} = \frac{8}{1000} \text{ kg} = 0.008 \text{ kg}$
2. $2 \text{ kg } 500 \text{ g} = 2 \text{ kg} + 500 \text{ g}$
 $= 2 \times 1000 \text{ g} + 500 \text{ g} \text{ (As } 1 \text{ kg} = 1000 \text{ g)}$
 $= 2000 \text{ g} + 500 \text{ g} = 2500 \text{ g} = 2.5 \text{ kg}$
3. 575 mg
 $1 \text{ mg} = \frac{1}{100} \text{ g}$ $575 \text{ mg} = \frac{575}{100} \text{ g} = 0.575 \text{ g}$
4. 19 kg 500g 95 mg
 $= 19 \text{ kg} + 500 \text{ g} + 95 \text{ mg} = 19000 \text{ g} + 500 \text{ g} + \frac{95}{1000} \text{ g}$
 $= 19500 \text{ g} + 0.095 \text{ g} = 19500.095 \text{ g}$

5. 42 dg 70 mg

$$= 42 \text{ dg} + 70 \text{ mg} = \frac{42}{10} \text{ g} + \frac{70}{1000} \text{ g} = 4.2 \text{ g} + 0.070 \text{ g}$$

$$= 4.27 \text{ g}$$

6. 70 kg 90 g = 70 kg + 90g

$$70 \text{ kg} + \frac{90}{1000} \text{ kg} = 70 \text{ kg} + 0.090 \text{ kg} = 70.090 \text{ kg}$$

7. 20 g 500 mg

$$= 20 \text{ g} + 500 \text{ mg} = 20 \text{ g} + \frac{500}{1000} \text{ g} = 20 \text{ g} + 0.5 = 20.5 \text{ g}$$

8. $999 \text{ mg} = \frac{999}{100000} = 0.00999 \text{ hg}$

9. $5.725 \text{ g} = 5.725 \times 1000 \text{ mg} = 5725 \text{ mg}$

Practice Time 8.4

A 1. $0.00024 \text{ kl} = 0.00024 \times 100000 \text{ cl} = 24 \text{ cl}$

2. $300 \text{ ml} = \frac{300}{1000000} \text{ kl} = 0.0003 \text{ kl}$

3. $795.00 \text{ l} = \frac{795}{1000} \text{ kl} = 0.795 \text{ kl}$

4. $88.45 \text{ ml} = \frac{88.45}{1000 \times 100} \text{ l} = 0.08845 \text{ l}$

5. $705 \text{ l} = 705 \times 100 \text{ cl} = 70500 \text{ cl}$

6. $89500314 \text{ cl} = \frac{89500314}{100000} \text{ kl} = 895.00314 \text{ kl}$

7. $0.976 \text{ l} = 0.976 \times 1000 \text{ ml} = 976 \text{ ml}$

8. $0.550 \text{ cl} = \frac{0.550}{100000 \times 1000} \text{ kl} = 0.0000055 \text{ kl}$

9. $974.3 \text{ cl} = 974.3 \times 10 \text{ ml} = 9743 \text{ ml}$

10. $8045660 \text{ ml} = \frac{8045660}{1000000} = 8.045660 \text{ kl}$

B 1. $3.2 \text{ l} = 3.2 \times 1000 \text{ ml} = 3200 \text{ ml}$

2. $0.425 \text{ l} = 0.425 \times 1000 \text{ ml} = 425 \text{ ml}$

3. $2.5 \text{ l} = 2.5 \times 1000 \text{ ml} = 2500 \text{ ml}$

4. $12.9 \text{ l} = 12.9 \times 1000 \text{ ml} = 12900 \text{ ml}$

- C 1.** $1450 \text{ ml} = \frac{1450}{1000} \text{ l} = 1.450 \text{ l}$
- 2.** $5430 \text{ ml} = \frac{5430}{1000} \text{ l} = 5.430 \text{ l}$
- 3.** $1045 \text{ ml} = \frac{1045}{1000} \text{ l} = 1.045 \text{ l}$
- 4.** $9890 \text{ ml} = \frac{9890}{1000} = 9.890 \text{ l}$
- D 1.** $750 \text{ ml} = \frac{750}{1000} \text{ l} = 0.750 \text{ l}$
- 2.** $6 \text{ l } 500 \text{ ml} = 6 \text{ l} + 500 \text{ ml} = 6 \text{ l} + \frac{500}{1000} \text{ l} = 6 \text{ l} + 0.5 \text{ l} = 6.5 \text{ l}$
- 3.** $10 \text{ l } 150 \text{ ml} = 10 \text{ l} + 150 \text{ ml} = 10 \text{ l} + \frac{150}{1000} \text{ l}$
 $= 10 \text{ l} + 0.15 \text{ l} = 10.150 \text{ l}$
- E 1.** $7 \text{ kl } 100 \text{ l} = 7 \text{ kl} + 100 \text{ l} = 7 \text{ kl} + \frac{100}{1000} \text{ kl}$
 $= 7 \text{ kl} + \frac{100}{1000} \text{ kl} = 7 \text{ kl} + 0.1 \text{ kl} = 7.1 \text{ kl}$
- 2.** $6 \text{ kl } 95 \text{ l} = 6 \text{ kl} + 95 \text{ l} = 6 \text{ kl} + \frac{95}{1000} \text{ kl}$
 $= 6 \text{ kl} + 0.095 \text{ kl} = 6.095 \text{ kl}$
- 3.** $25 \text{ l} = \frac{25}{1000} \text{ kl} = 0.025 \text{ kl}$
- F 1.** $4 \text{ l } 250 \text{ ml} = 4 \text{ l} + 250 \text{ ml} = 4000 \text{ ml} + 250 \text{ ml} = 4250 \text{ ml}$
- 2.** $7 \text{ l } 125 \text{ ml} = 7 \times 1000 \text{ ml} + 125 \text{ ml} = 7000 \text{ ml} + 125 \text{ ml}$
 $= 7125 \text{ ml}$
- 3.** $4 \text{ l } 250 \text{ ml} = 4 \times 1000 \text{ ml} + 250 \text{ ml} = 4000 \text{ ml} + 250 \text{ ml}$
 $= 4250 \text{ ml}$
- G 1.** $11 \text{ kl } 15 \text{ l} = 11 \times 1000 \text{ l} + 15 \text{ l} = 11000 \text{ l} + 15 \text{ l} = 11015 \text{ l}$
- 2.** $6 \text{ kl } 25 \text{ l} = 6 \times 1000 \text{ l} + 25 \text{ l} = 6000 \text{ l} + 25 \text{ l} = 6025 \text{ l}$
- 3.** $9 \text{ kl } 150 \text{ l} = 9 \times 1000 \text{ l} + 150 \text{ l} = 9000 \text{ l} + 150 \text{ l} = 9150 \text{ l}$

Practice Time 8.5

- A 1.**
- | | kg | hg | dag | g | |
|---|----|----|-----|---|--|
| | 5 | 6 | 9 | 3 | |
| | 7 | 4 | 3 | 5 | |
| + | 4 | 7 | 9 | 6 | |
| | 17 | 9 | 2 | 4 | |
- $= 17 \text{ kg } 9 \text{ hg } 2 \text{ dag } 4 \text{ g or } 17.924 \text{ kg}$

$$\begin{array}{r}
 \text{kg} \quad \text{g} \\
 7 \quad 250 \\
 5 \quad 380 \\
 2 \quad 680 \\
 \hline
 15 \quad 310
 \end{array}$$

$$= 15 \text{ kg } 310 \text{ g or } 15.310 \text{ g}$$

$$\begin{array}{r}
 \text{m} \quad \text{dm} \quad \text{cm} \quad \text{mm} \\
 2 \quad 3 \quad 6 \quad 5 \\
 4 \quad 6 \quad 7 \quad 4 \\
 + \quad 7 \quad 5 \quad 2 \quad 7 \\
 \hline
 14 \quad 5 \quad 6 \quad 6
 \end{array}$$

$$= 14 \text{ m } 5\text{dm } 6 \text{ cm } 6 \text{ mm or } 14.566 \text{ m}$$

$$\begin{array}{r}
 \text{kg} \quad \text{hg} \quad \text{dag} \quad \text{g} \\
 5 \quad 7 \quad 2 \quad 6 \\
 - \quad 3 \quad 8 \quad 5 \quad 9 \\
 \hline
 1 \quad 8 \quad 6 \quad 7
 \end{array} = 1 \text{ kg } 8 \text{ hg } 6\text{dag } 7\text{g}; 1.867 \text{ kg}$$

$$\begin{array}{r}
 \text{l} \quad \text{ml} \\
 72 \quad 005 \\
 -65 \quad 650 \\
 \hline
 6 \quad 355
 \end{array} \quad 6 \text{ l } 355\text{ml} = 6.355\text{l}$$

$$\begin{array}{r}
 \text{kg} \quad \text{g} \\
 8 \quad 250 \\
 -4 \quad 750 \\
 \hline
 3 \quad 500
 \end{array} \quad 3 \text{ kg } 500\text{g} ; 3.5 \text{ kg}$$

$$\begin{array}{r}
 \text{km} \quad \text{hm} \quad \text{dam} \quad \text{m} \\
 6 \quad 5 \quad 3 \quad 4 \\
 \times \quad 1 \quad 2 \\
 \hline
 1 \quad 3 \quad 0 \quad 6 \quad 8 \\
 + \quad 6 \quad 5 \quad 3 \quad 4 \quad 0 \\
 \hline
 7 \quad 8 \quad 4 \quad 0 \quad 8
 \end{array} = 78.408 \text{ km}$$

$$\begin{array}{r}
 \text{l} \quad \text{ml} \\
 25 \quad 175 \\
 \times \quad 15 \\
 \hline
 125 \quad 875 \\
 251 \quad 750 \\
 \hline
 377 \quad 625
 \end{array} = 377.625 \text{ l}$$

$$\begin{array}{r}
 \text{kg} \quad \text{g} \\
 57 \quad 275 \\
 \times 13 \\
 \hline
 171825 \\
 + 572750 \\
 \hline
 744575
 \end{array} = 744.575 \text{ g}$$

$$\begin{array}{r}
 12 \overline{)9564} \text{ (0.797} \\
 \underline{-84} \downarrow \\
 116 \downarrow \\
 \underline{108} \downarrow \\
 -84 \\
 \underline{84} \\
 \underline{0}
 \end{array}$$

$$Q = 0.797 \text{ km}$$

$$\begin{array}{r}
 9 \overline{)56.349} \text{ (6.261} \\
 \underline{-54} \downarrow \\
 23 \downarrow \\
 \underline{18} \downarrow \\
 -54 \downarrow \\
 \underline{54} \downarrow \\
 09 \\
 \underline{9} \\
 \underline{0}
 \end{array}$$

$$Q = 6.261 \text{ kg}$$

$$\begin{array}{r}
 8 \overline{)5848} \text{ (.731} \\
 \underline{-56} \downarrow \\
 24 \downarrow \\
 \underline{24} \downarrow \\
 -8 \\
 \underline{8} \\
 \underline{0}
 \end{array}$$

$$Q = 0.731 \text{ m}$$

E 1. Total amount of water she

$$\text{drinks in a day} = 125 \times 8 = 1000 \text{ ml} = 1 \text{ l}$$

$$\text{2. Amount of water filled in 1 day} = \frac{245 \text{ kl } 945 \text{ l}}{7}$$

$$\begin{array}{r}
 7 \overline{)245945} \text{ (35135} \\
 \underline{-21} \downarrow \\
 35 \downarrow \\
 \underline{-35} \downarrow \\
 09 \downarrow \\
 \underline{-7} \downarrow \\
 24 \downarrow \\
 \underline{-21} \downarrow \\
 35 \downarrow \\
 \underline{35} \\
 \underline{0}
 \end{array}$$

Therefore, 35 kl 135 l of water was filed in 1 day

3. Weight of one pencil box = 250 g

Weight of 12 pencil boxes = 12×250

Therefore, 3 kg is the weight of 12 pencil boxes.

$$\begin{array}{r} 250 \\ \times 12 \\ \hline 500 \\ 2500 \\ \hline 3000 \end{array}$$

CHAPTER- 9

Practice Time 9.1

1. Cost of 24 ball pens = ₹ 56

$$\text{Cost of 1 ball pen} = \frac{56}{24}$$

$$\text{Cost of 18 ball pens} = \frac{56}{24} \times 18 = ₹ 42$$

Therefore, ₹ 42 is the cost of 18 ball pens.

2. Cost of 5 shaving blades = ₹ 625

$$\text{Cost of 1 shaving blade} = \frac{625}{5}$$

$$\text{Cost of 12 shaving blades} = \frac{625}{5} \times 12 = 125 \times 12 = ₹ 1500$$

3. As 1 score = 20 bananas

$$8 \text{ scores} = 20 \times 8 = 160 \text{ bananas}$$

$$\text{Cost of 160 bananas} = ₹ 192; \text{ Cost of 1 banana} = \frac{192}{160}$$

$$\text{Cost of 85 banana} = \frac{192}{160} \times 85 = ₹ 102$$

Therefore, cost of 85 bananas were ₹ 102.

4. Cost of 3 kg apples = ₹ 105; Cost of 1 kg apples = $\frac{105}{3} = ₹ 35$

$$\text{Cost of 5 kg apples} = ₹ 180; \text{ Cost of 1 kg apples} = \frac{180}{5} = ₹ 36$$

Therefore, cost of 3 kg apples is better buy

5. Earnings in 6 weeks = 3900

$$\text{Earnings in 1 weeks} = \frac{3900}{6}$$

$$\text{Earnings in 10 weeks} = \frac{3900}{6} \times 10 = ₹ 6500$$

Therefore, ₹ 6500 is the earnings in 10 weeks

6. Number of standing in 3 rows = 120

$$\text{Number of boys standing in 1 row} = \frac{120}{3}$$

$$\text{Number of boys in 14 rows} = \frac{120}{3} \times 14 = 560$$

Therefore, 560 boys were standing in 14 rows.

Practice Time 9.2

A 1. $\frac{40}{100} = 40\%$

2. $\frac{25}{100} = 25\%$

3. $\frac{43}{100} = 43\%$

4. $\frac{100}{100} = 1\%$

5. $\frac{3}{100} = 3\%$

B 1. 8 $8 \times 100\% = 800\%$

2. 0.8 $0.8 \times 100\% = 80\%$

3. $\frac{1}{4} = \frac{1}{4} \times 100\% = 25\%$

4. $\frac{24}{25} = \frac{24}{25} \times 100 = 96\%$ 5. $0.05 = 0.05 \times 100\% = 5\%$

6. $0.82 = 0.82 \times 100\% = 82\%$

C 1. $60\% \text{ of } 108 = \frac{60}{100} \times 108 = 108$

2. $42\% \text{ of } 63 = \frac{42}{100} \times 63 = \frac{2646}{100} = \frac{1323}{50} = 26\frac{23}{50}$

3. $55\% \text{ of } 200 = \frac{55}{100} \times 200 = 110$

4. $75\% \text{ of } 50 \text{ kg} = \frac{75}{100} \times 50 = \frac{75}{2} = 37\frac{1}{2} \text{ kg}$

5. $6\% \text{ of } ₹ 150 = \frac{6}{100} \times 150 = ₹ 9$

Practice Time 9.3

A 1. $C_p = ₹ 17530$ $S_p = ₹ 18560$

As $S_p > C_p$, so there is profit

$$\text{Profit} = S_p - C_p$$

- 4.** $SP = ₹ 9899$ $Loss = ₹ 876$
 $Loss = CP - SP$ $CP = Loss + SP$
 $= 9899 + 876 = ₹ 10775$
- C** $CP \text{ of goods} = ₹ 235$ $SP \text{ of goods} = ₹ 250$
 $Profit = SP - CP = 250 - 235 = ₹ 15$
- D** $CP \text{ of dining set} = ₹ 12675$ $SP \text{ of dining set} = ₹ 9450$
 $Loss = CP - SP$
 $= 12675 - 9450 = ₹ 3225$
- E** $CP \text{ of crockery set} = ₹ 635$
 $Loss = ₹ 105$ $Loss = CP - SP$ $SP = CP - Loss$
 $= 635 - 105 = ₹ 530$
- F** $CP \text{ of bookseller} = ₹ 1099$
 $Profit = ₹ 101$ $Profit = SP - CP$ $SP = Profit + CP$
 $= 101 + 1099 = ₹ 1200$

CHAPTER – 10

Practice Time 10

- A 1.** $Average = \frac{\text{Sum of all observations}}{\text{Total no. of observations}}$
 $= \frac{36 + 42 + 63 + 78 + 94 + 81 + 82}{7} = \frac{476}{7} = 68$
- 2.** $Average = \frac{130 + 140 + 145 + 155 + 170 + 220}{6}$
 $= \frac{960}{6} = 160$
- 3.** $Average + \frac{76 + 69 + 49 + 108 + 228 + 224 + 422}{7}$
 $= \frac{1176}{7} = 168$
- 4.** $Average = \frac{85 + 55 + 75 + 95 + 105}{5} = \frac{415}{5} = 83$
- B 1.** $Average = \frac{\text{Eng} + \text{Hindi} + \text{Math} + \text{EVS} + \text{Comp}}{5}$
 $= \frac{81 + 79 + 93 + 82 + 80}{5} = \frac{415}{5} = 83$

2. In one subject; Mathematics
 3. In 4 subjects, English, Hindi, EVS, Computer
C Sum of 7 numbers = $48 \times 7 = 336$

$$\text{Sum of 2 numbers} = 60 + 56 = 116$$

$$\text{Sum of remaining 5 numbers} = 336 - 116 = 220$$

$$\text{Average of 5 numbers} = \frac{220}{5} = 44$$

$$\textbf{D} \text{ Average of 5 numbers} = \frac{262 + 194 + 306 + 225}{4}$$

$$= \frac{987}{4} = ₹246.75$$

- E 1.** Average marks

$$48 + 50 + 37 + 49 + 28 + 17 + 13 + 39 + 41 + 45$$

$$= \frac{+50 + 9 + 19 + 43 + 48 + 47 + 29 + 25 + 18 + 20}{20}$$

$$= \frac{675}{20} = 33.75 \text{ marks}$$

2. 11 students 3. 9 students 4. None

$$\textbf{F} \text{ Average haircuts} = \frac{40 + 26 + 35 + 25 + 28 + 32}{6}$$

$$= \frac{186}{6} = 31 \text{ hair cuts.}$$

CHAPTER - 11

Practice Time 11.1

A 1. $5 + 6 + 7 = 18 \text{ cm}$

2. $5 + 5 + 5 = 15 \text{ cm}$

3. $8 + 7 + 3 + 6 = 24 \text{ cm}$

4. Perimeter = $4 \times \text{side}$
 $4 \times 10 = 40 \text{ cm}$

5. $4 + 5 + 1 + 4 = 14 \text{ cm}$

6. $2 \times (L \times B) = \text{Perimeter}$ $2 \times (15 + 9) = 2 \times 24 = 48 \text{ cm}$

B 1. Perimeter of triangle $\triangle ABC = AB + BC + AC$
 $= 8 + 8 + 6 = 22 \text{ cm}$

2. Perimeter of triangle $\triangle ABC = AB + BC + AC$
 $= 4.5 + 8.1 + 7.2 = 19.8 \text{ cm}$

3. Perimeter of triangle $\triangle ABC = AB + BC + AC$
 $= 4.9 + 7 + 9 = 20.9 \text{ cm}$
4. Perimeter of triangle $\triangle ABC = AB + BC + AC$
 $= 7 + 8 + 6 = 21 \text{ cm}$
5. Perimeter of triangle $\triangle ABC = AB + BC + AC$
 $= 15 + 14.8 + 13.2 = 43 \text{ cm}$

C Perimeter of equilateral triangle $= 3 \times \text{side}$

1. Perimeter $= 3 \times 4.5 = 13.5 \text{ cm}$
2. Perimeter $= 3 \times 9 = 27 \text{ cm}$
3. Perimeter $= 3 \times 2.9 = 8.7 \text{ cm}$
4. Perimeter $= 3 \times 40 = 120 \text{ m}$
5. Perimeter $= 3 \times 25 = 75 \text{ mm}$

D Perimeter of square $= 4 \times \text{side}$

1. Perimeter $4 \times 14 = 56 \text{ m}$
2. Perimeter $= 4 \times 125 = 500$
3. Perimeter $= 4 \times 85 = 340 \text{ cm}$
4. Perimeter $= 4 \times 34 = 136 \text{ cm}$
5. Perimeter $= 4 \times 25 = 100 \text{ mm}$

E Perimeter of rectangle $= 2(l + b)$

1. Perimeter $= 2(L + B) = 2(45 + 32) = 2 \times 77 = 154 \text{ m}$
2. Perimeter $= 2(L + B) = 2(50 + 40) = 2 \times 90 = 180 \text{ cm}$
3. Perimeter $= 2(L + B) = 2(85 + 62) = 2 \times 147 = 294 \text{ cm}$
4. Perimeter $= 2(L + B) = 2(105 + 95) = 2 \times 200 = 400 \text{ m}$
5. Perimeter $= 2(L + B) = 2(35.2 + 19.9) = 2 \times 55.1 = 110.2 \text{ cm}$

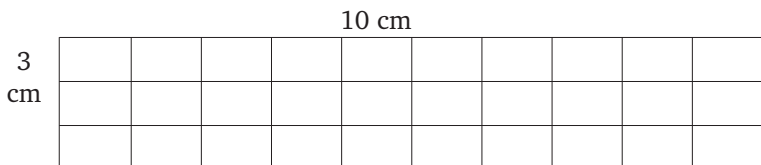
F Perimeter of rectangle $= 2(L + B) = 2(11 + 2) = 2 \times 13 = 26 \text{ cm}$

G Perimeter of rectangle $= 2(L + B)$

$$20 = 2(3 + B); \frac{20}{2} = 3 + B; B = 10 - 3 = 7 \text{ cm}$$

H Perimeter of rectangle $= 2 \times (L + B) = 2(4 + 11) = 2 \times 15 = 30 \text{ cm}$

I Perimeter $= 4 + 9 + 2 + 4 + 4 + 7 + 4 + 4 = 38 \text{ cm}$

J

$$\text{Perimeter} = 3 + 10 + 3 + 10 = 26 \text{ cm}$$

Practice Time 11.2

A 1. Area of rectangle = $L \times B = 16.29 \times 15.50 = 252.495 \text{ m}^2$

2. Area of rectangle = $L \times B = 18.2 \times 12.4 = 225.68 \text{ m}^2$

3. Area of rectangle = $L \times B = 4.25 \times 0.83 = 3.5275 \text{ m}^2$

4. Area of rectangle = $L \times B = 20 \times 16 = 320 \text{ m}^2$

B 1. Area of square = Side $\times$ Side = $25 \times 25 = 625 \text{ m}^2$

2. Area of square = Side $\times$ Side = $8.5 \times 8.5 = 72.25 \text{ m}^2$

3. Area of square = Side $\times$ Side = $19.0 \times 19.02 = 361.7604 \text{ m}^2$

4. Area of square = Side $\times$ Side = $11.82 \times 11.82 = 139.7124 \text{ m}^2$

5. Area of square = Side $\times$ Side = $2.5 \times 2.5 = 6.25 \text{ m}^2$

6. Area of square = Side $\times$ Side = $8.9 \times 8.9 = 79.21 \text{ m}^2$

C 1. Area = 832 m^2 Breadth = 26 m Length = ?

$$\text{Length} = \frac{832}{26} = 32 \text{ m}$$

2. Area = 2688 cm^2 Breadth = 48 cm Length = ?

$$\text{Length} = \frac{2688}{48} = 56 \text{ cm}$$

3. Area = $\frac{153}{4} \text{ m}^2$ Breadth = $\frac{15}{4} \text{ m}$

$$\text{Length} = \frac{153}{4} \div \frac{15}{4} \quad \text{Length} = 10.2 \text{ m or } 10\frac{1}{5} \text{ m}$$

4. Area = 262.364 km^2

Breadth = 12.26 km Length = ?

$$\text{Length} = \frac{262.364}{12.26} = 21.4 \text{ km}$$

- D** 1. Area = 800 cm^2 Length = 0.4 m or 40 cm
 Breadth = $\frac{800}{40} = 20 \text{ cm}$
2. Area = 1288 m^2 Length = 56 m
 Breadth = $\frac{1288}{56} = 23 \text{ m}$
3. Area = 168.75 m^2 Length = 45 m
 Breadth = $\frac{168.75}{45} = 3.75 \text{ m}$
- E** Area = 16 square units Length = 2 units
 Breadth = $\frac{16}{2} = 8 \text{ units}$
- F** Area = 24 square units Length = 6 units
 Breadth = $\frac{24}{6} = 4 \text{ units}$
- G** Area of square = $3 \times 3 = 9 \text{ sq. units}$

CHAPTER - 12

Practice Time 12.1

- Volume of cuboid = $l \times b \times h = 12 \times 10 \times 6 = 720 \text{ cm}^3$
- Volume of cuboid = $l \times b \times h = 16.5 \times 13 \times 12 = 2574 \text{ cm}^3$
- Volume of cuboid = $l \times b \times h = 5.6 \times 3.5 \times 1.7 = 33.32 \text{ m}^3$
- Volume of cuboid = $l \times b \times h = 18.50 \times 16 \times 14.8 = 4380.8 \text{ cm}^3$

Practice Time 12.2

- | | | |
|-------------------------------|-----------------------------|-----------------------------|
| A 1. 11 cm^3 | 2. 11 cm^3 | 3. 7 cm^3 |
| B 1. 27 cm^3 | 2. 24 cm^3 | 3. 48 cm^3 |

Practice Time 12.3

- | | | |
|---------------|-------------|-------------|
| A 1. b | 2. e | 3. d |
| 4. f | 5. a | 6. c |
- B** 2, 3, 4

Practice Time 12.4

- A** 1. 20 ml (object occupies the same space as capacity of water)
- | | |
|----------|-----------------|
| 2. 60 ml | 3. 75 ml |
|----------|-----------------|
- | | | |
|---------------------|--------------------|--------------------|
| B 1. 9 cu.cm | 2. 30 cu.cm | 3. 96 cu.cm |
|---------------------|--------------------|--------------------|
- C** Do it yourself. **D** Do it yourself.

CHAPTER - 13

Practice Time 13.1

- A** 1. (a) Vertex = O (b) $\angle AOB = 85^\circ$ (c) arms = OA, OB
2. (a) Vertex = Q (b) $\angle Q = 90^\circ$ (c) Arms = QP, QR
3. (a) Vertex = N (b) $\angle MNP = 40^\circ$ (c) Arms = NM, NP
- B** 1. $\angle AOB, \angle BOC, \angle AOC$ 2. $\angle NMP, \angle PMQ, \angle NMQ$
3. $\angle MON, \angle NOP, \angle POQ, \angle MOP, \angle NOQ, \angle MOQ$
- C** 1. Interior 2. Exterior
3. $\angle AOB$ 4. $\angle AQB$
5. Exterior 6. Interior
- D** 1. < 2. > 3. > 4. <
5. > 6. =

Practice Time 13.2

Do it yourself.

Practice Time 13.3

Do it yourself.

Practice Time 13.4

- A** 1. Parallel Line 2. Perpendicular lines
3. Perpendicular lines 4. Parallel lines
- B** $AB \parallel CD$ and $AD \parallel BC$, So, AB, CD, AD, BC are parallel lines
 $AD \perp AB, BC \perp AB, AB \perp BC, CD \perp BC$
So, AD and AB, BC and AB, AB and BC, CD and BC are perpendicular lines.

CHAPTER - 14

Practice Time 14

- A** $\text{IIIII} \times \text{IIIII} = 12345654321$
 $\text{IIIIII} \times \text{IIIIII} = 1234567654321$
 $\text{IIIIIII} \times \text{IIIIIII} = 123456787654321$
- B** 3. 3,33,333 4. 4,44,444
- C** 1. 55 2. 155 3. 255

CHAPTER 15

Practice Time 15.1

- A** 1. 60 seconds 2. 48 hours

3. 60 minutes 4. 180 minutes
 5. 1 hour 6. 3 hours
 7. 60 minutes 8. 120 seconds
- B**
- 11 hours 44 minutes
 $= 11 \text{ hrs} + 44 \text{ min} = 11 \times 60 + 44 \text{ min}$
 $= 660 \text{ min} + 44 \text{ min} = 704 \text{ min}$
 - 5 hours 5 minutes
 $= 5 \text{ hours} + 5 \text{ minutes} = 5 \times 60 \text{ min} + 5 \text{ minutes}$
 $= 300 \text{ min} + 5 \text{ min} = 305 \text{ min}$
 - 10 hours 10 minutes
 $= 10 \times 60 \text{ min} + 10 \text{ minutes} = 600 \text{ min} + 10 \text{ min} = 610 \text{ min}$
 - 5 hours 59 minutes
 $= 5 \times 60 \text{ min} + 59 \text{ minutes} = 300 \text{ min} + 59 \text{ minutes}$
 $= 359 \text{ minutes}$
 - 2 hours + 15 minutes
 $= 2 \times 60 \text{ minutes} + 15 \text{ minutes} = 120 \text{ minutes} + 15 \text{ minute}$
 $= 135 \text{ minutes}$
- C**
- 5 days $= 5 \times 24 \text{ hours} = 120 \text{ hours}$
 - 720 minutes
 $1 \text{ hr} = 60 \text{ minutes} = \frac{720}{60} = 12 \text{ hours}$
 - 180 minutes
 $1 \text{ hr} = 60 \text{ minutes} = \frac{180}{60} = 3 \text{ hours}$
 - 30 minutes
 $1 \text{ hr} = 60 \text{ minutes} = \frac{30}{60} = \frac{1}{2} \text{ hours}$
 - 5400 minutes
 $1 \text{ hr} = 60 \text{ minutes} = \frac{5400}{60} = 90 \text{ hours}$
- D**
- 96 hours
 $1 \text{ day} = 24 \text{ hours} = \frac{96}{24} = 4 \text{ days}$

2. 15 weeks

1 week = 7 days

15 weeks = $15 \times 7 = 105$ days

3. 7 weeks

1 week = 7 days

7 week = $7 \times 7 = 49$ days

4. 48 hours

1 day = 24 hours

48 hours = $\frac{48}{24} = 2$ days

5. 3 weeks 48 hours

3 weeks = $3 \times 7 = 21$ days

48 hours = $\frac{48}{24} = 2$ days

3 weeks 48 hours = $21 + 2 = 23$ days

Practice Time 15.2

A 1. Hours Minutes

$$\begin{array}{r} 14 \quad 29 \\ + 25 \quad 24 \\ \hline 39 \quad 53 \end{array}$$

Ans. 39 hrs 53 min

3. Hrs Min.

$$\begin{array}{r} 20 \quad 30 \\ - 16 \quad 46 \\ \hline 3 \quad 44 \end{array}$$

Ans. 3 hours 44 minutes

5. Hrs Min. Sec.

$$\begin{array}{r} 30 \quad 05 \quad 01 \\ - 15 \quad 16 \quad 27 \\ \hline 14 \quad 48 \quad 34 \end{array}$$

= 14 hours 48 min. 34 seconds

B 1. Hours Minutes

$$\begin{array}{r} 49 \quad 06 \\ + 9 \quad 57 \\ \hline 58 \quad 63 \end{array}$$

= 59 hours 3 minutes

3. Hrs. Min. Sec.

$$\begin{array}{r} 34 \quad 20 \quad 40 \\ + 64 \quad 20 \quad 12 \\ \hline 98 \quad 40 \quad 52 \end{array}$$

2. Hrs Min

$$\begin{array}{r} 16 \quad 28 \\ + 17 \quad 45 \\ \hline 33 \quad 73 \end{array}$$

Ans. 34 hours 13 minutes

4. Hrs. Min. Sec.

$$\begin{array}{r} 12 \quad 45 \quad 34 \\ + 10 \quad 39 \quad 49 \\ \hline 23 \quad 85 \quad 83 \end{array}$$

Ans. 23 hours 25 min 23 seconds

2. Hrs. Min. Sec.

$$\begin{array}{r} 38 \quad 38 \quad 38 \\ + 37 \quad 37 \quad 37 \\ \hline 75 \quad 75 \quad 75 \end{array}$$

= 76 hours 16 minutes 15 seconds

= 98 hours 40 minutes 52 seconds

C 1.

Hours	Minutes
28	29
-14	50
13	39

= 13 hours 39 minutes

2.

Hours	Minutes
32	16
-28	44
3	32

= 3 hours 32 minutes

3.

Hours	Minutes
94	30
-92	80
1	10

= 1 hours 10 minutes

Practice Time 15.3

A 1. 60°F **2.** 30°F **3.** 10° F **4.** 90°F

B Temp. at 40 m = 27°C

Temp. rises by 2 pm = 27°C + 10°C = 37°C

C Temp. at 3 pm = 36.5°C; Temp at 8 pm = 34.4°C

At 8 pm temp was low and rise in temp 2.1°C on first day

D Normal body temperature = 98.6°F

On 3rd day body temp = 101.3°F

Rise in temp on 3rd day = 101.3°F - 98.6°F = 2.7°F

E 1. thermometers **2.** 0°C, 100°C **3.** 32°F, 212°F

CHAPTER - 16

Practice Time 16.1

A 1. School **2.** Sleep **3.** Homework

4. Play **5.** Others **6.** T.V.

B Do it yourself.

C 1. (a) $40 \div 4 = 10$ students (b) $40 \div 4 = 10$ students
(c) 6 students (d) 14 students

2. Jyoti

3. Shweta and Surbhi got the same votes; Surbhi gets more votes then Nikita = $20 - 16 = 4$ votes

Practice Time 16.2

A 1.

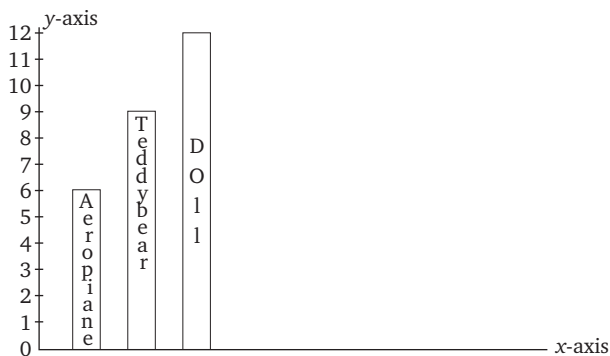
Fruits	Tally Marks	Frequency
Mango		12
Papaya		14
Grapes		20
Orange		8
Apple		18

2.

Sports	Tally Marks	Frequency
Cricket		18
Tennis		12
Volley ball		14
Badminton		16

Toys	Tally Marks	Frequency
Aeroplane		6
Teddy bear		9
Doll		12

B.



Practice Time 16.3

A Do it yourself

1. 3150 passengers

3. Helicopter

2. Bus

4. 1050

B 1. 10 cm

3. 24 cm

2. 30 cm

4. 20 cm