

### Exercise-9.2

- (a) Centimeters, decimeters, metre, hectometer
- (b) Millilitres, decilitres, litres, kilometres
- (c) Milligram, centigram, gram, kilogram

### Exercise-9.3

1. (a)  $1000\text{ cm} + 90\text{ m} = 1000\text{ cm} + 90\text{ m} = 10\text{ m} + 90\text{ m} = 100\text{ m}$   
(b)  $87\text{ dm} = 870\text{ cm}$  (c)  $5600\text{ ml} = 5\text{ l } 600\text{ ml}$   
(d)  $45000\text{ ml} = 45\text{ l}$  (e)  $7000\text{ mg} = 7\text{ kg}$   
(f)  $567\text{ hm} = 5670000\text{ cm}$  (g)  $9\text{ dal} = 90\text{ l}$   
(h)  $4998\text{ cm} + 2\text{ cm} = 5000\text{ cm} = 50\text{ m}$   
(i)  $56\text{ g} = 5600\text{ mg}$   
(j)  $600000\text{ cm} = 6\text{ km}$
2. (a)  $8459\text{ g} = 8000\text{ g} + 459\text{ g}$  (b)  $14978\text{ g} = 14000\text{ g} + 978\text{ g}$   
 $= 8000 \div 1000\text{ kg} + 459\text{ g}$   $= 14000 \div 1000\text{ kg} + 978\text{ g}$   
 $= 8\text{ kg} + 459\text{ g}$   $= 14\text{ kg} + 978\text{ g}$   
 $= 8\text{ kg } 459\text{ g}$   $= 14\text{ kg } 978\text{ g}$   
(b)  $24689\text{ g}$  (d)  $33000\text{ g}$   
 $= 24000\text{ g} + 689\text{ g}$   $= 33000 \div 1000\text{ kg}$   
 $= 24000 \div 1000\text{ kg} + 689\text{ g}$   $= 33\text{ kg}$   
 $= 24\text{ kg} + 689\text{ g}$   
 $= 24\text{ kg } 689\text{ g}$
3. (a)  $54000\text{ m}$  (b)  $65767\text{ m}$   
 $= 54000 \div 1000\text{ km}$   $= 65000\text{ m} + 767\text{ m}$   
 $= 54\text{ km}$   $= 65000 \div 1000\text{ km} + 767\text{ m}$   
 $= 65\text{ km} + 767\text{ m}$   
 $= 65\text{ km } 767\text{ m}$   
(c)  $7334\text{ m}$  (d)  $6144\text{ m}$   
 $= 7000\text{ m} + 334\text{ m}$   $= 6000\text{ m} + 144\text{ m}$   
 $= 7000 \div 1000\text{ km} + 334\text{ m}$   $= 6000 \div 1000\text{ km} + 144\text{ m}$   
 $= 7\text{ km} + 334\text{ m}$   $= 6\text{ km} + 144\text{ m}$   
 $= 7\text{ km } 334\text{ m}$   $= 6\text{ km } 144\text{ m}$

### Exercise-9.4

1. (a) 
$$\begin{array}{r} 45\text{ kg } 456\text{ g} \\ + 23\text{ kg } 608\text{ g} \\ \hline 69\text{ kg } 064\text{ g} \end{array}$$
 (b) 
$$\begin{array}{r} 123\text{ km } 34\text{ m } 103\text{ cm} \\ + 89\text{ km } 405\text{ m } 222\text{ cm} \\ \hline 212\text{ km } 439\text{ m } 325\text{ cm} \end{array}$$
  
(c) 
$$\begin{array}{r} 13\text{ km } 670\text{ g} \\ 45\text{ km } 908\text{ g} \\ + 29\text{ km } 770\text{ m} \\ \hline 89\text{ km } 348\text{ m} \end{array}$$
 (d) 
$$\begin{array}{r} 45\text{ kg } 43\text{ g} \\ 18\text{ kg } 390\text{ g} \\ + 55\text{ kg } 90\text{ g} \\ \hline 119\text{ kg } 333\text{ g} \end{array}$$



$$\begin{array}{r} \text{(e)} \quad 13 \text{ kg } 456 \text{ hg } 13 \text{ mg} \\ + 34 \text{ kg } 233 \text{ hg } 78 \text{ mg} \\ \hline 47 \text{ kg } 689 \text{ hg } 91 \text{ mg} \end{array}$$

$$\begin{array}{r} \text{(g)} \quad 14 \text{ l } 708 \text{ ml} \\ + 34 \text{ l } 222 \text{ ml} \\ \hline 48 \text{ l } 930 \text{ ml} \end{array}$$

$$\begin{array}{r} 2. \text{ (a)} \quad 678 \text{ m } 10 \text{ cm} \\ - 573 \text{ m } 63 \text{ cm} \\ \hline 140 \text{ m } 47 \text{ cm} \end{array}$$

$$\begin{array}{r} \text{(c)} \quad 42 \text{ km } 900 \text{ m} \\ - 31 \text{ km } 706 \text{ m} \\ \hline 11 \text{ km } 194 \text{ m} \end{array}$$

$$\begin{array}{r} \text{(e)} \quad 42 \text{ l } 789 \text{ ml} \\ - 13 \text{ l } 230 \text{ ml} \\ \hline 29 \text{ l } 559 \text{ ml} \end{array}$$

$$\begin{array}{r} \text{(g)} \quad 76 \text{ km } 104 \text{ m } 66 \text{ cm} \\ - 52 \text{ km } 300 \text{ m } 45 \text{ cm} \\ \hline 23 \text{ km } 804 \text{ m } 21 \text{ cm} \end{array}$$

$$\begin{array}{r} \text{(f)} \quad 41 \text{ l } 543 \text{ ml} \\ 8 \text{ l } 564 \text{ ml} \\ \hline 19 \text{ l } 900 \text{ ml} \\ \hline 70 \text{ l } 007 \text{ ml} \end{array}$$

$$\begin{array}{r} \text{(h)} \quad 3784 \text{ l } 698 \text{ ml} \\ + 1223 \text{ l } 798 \text{ ml} \\ \hline 5008 \text{ l } 496 \text{ ml} \end{array}$$

$$\begin{array}{r} \text{(b)} \quad 99 \text{ l } 000 \text{ ml} \\ + 47 \text{ l } 788 \text{ ml} \\ \hline 51 \text{ l } 212 \text{ ml} \end{array}$$

$$\begin{array}{r} \text{(d)} \quad 15 \text{ km } 000 \text{ m} \\ - 6 \text{ km } 678 \text{ m} \\ \hline 8 \text{ km } 322 \text{ m} \end{array}$$

$$\begin{array}{r} \text{(f)} \quad 45 \text{ kg } 120 \text{ g} \\ - 23 \text{ kg } 319 \text{ g} \\ \hline 21 \text{ kg } 801 \text{ g} \end{array}$$

## WORD PROBLEMS

- |                        |        |        |
|------------------------|--------|--------|
| Milk sold on Ist day   | 46 l   | 450 ml |
| Milk sold on IInd day  | 35 l   | 500 ml |
| Milk sold on IIIRD day | + 56 l | 706 ml |
| Total milk sold        | 138 l  | 656 ml |
- |                   |        |       |
|-------------------|--------|-------|
| Distance          | 100 m  | 00 cm |
| Distance covered  | - 79 m | 50 cm |
| Distance remained | 20 m   | 50 cm |
- |            |          |  |
|------------|----------|--|
| Total wire | 500 cm   |  |
| Wire used  | - 298 cm |  |
| Wire left  | 202 cm   |  |

4. Distance walked to library 466 m  
 Distance walked to stationary shop 34 m  
 Distance walked to grocery shop + 350 m  
 Total distance walked 840 m
5. length of candle 32 cm 0 mm  
 Now, length of candle - 21 cm 5 mm  
 Candle burnt out 10 cm 5 mm
6. Length of rope 345 m 66 cm  
 rope used -234 m 15 cm  
 rope left 111 m 51 cm
7. Oil used 456 ml  
 + 123 ml  
579 ml  
 Total oil 900 ml  
 oil used -579 ml  
 oil left 321 ml
8. Total petrol 9 kl 500 l  
 petrol sold - 8 kl 700 l  
 petrol left 0 kl 800 l

### Exercise-9.5

(a) 
$$\begin{array}{r} l \quad ml \\ 3 \quad 125 \\ \times 3 \\ \hline 9 \quad 375 \end{array}$$

$\therefore 3 \text{ l } 125 \text{ ml} \times 3 = 9 \text{ l } 375 \text{ ml}$

(c) 
$$\begin{array}{r} kg \quad g \\ 3 \quad 560 \\ \times 5 \\ \hline 17 \quad 800 \end{array}$$

$\therefore 3 \text{ kg } 560 \text{ g} \times 5 = 17 \text{ kg } 800 \text{ g}$

(e) 
$$\begin{array}{r} l \quad ml \\ 7 \quad 150 \\ \times 3 \\ \hline 21 \quad 450 \end{array}$$

$\therefore 7 \text{ l } 150 \text{ ml} \times 3 = 21 \text{ l } 450 \text{ ml}$

(b) 
$$\begin{array}{r} cm \quad mm \\ 7 \quad 4 \\ \times 4 \\ \hline 29 \quad 6 \end{array}$$

$\therefore 7 \text{ cm } 4 \text{ mm} \times 4 = 29 \text{ cm } 6 \text{ mm}$

(d) 
$$\begin{array}{r} kg \quad g \\ 2 \quad 900 \\ \times 2 \\ \hline 5 \quad 800 \end{array}$$

$\therefore 2 \text{ kg } 900 \text{ g} \times 2 = 5 \text{ kg } 800 \text{ g}$

(f) 
$$\begin{array}{r} l \quad ml \\ 48 \quad 40 \\ \times 4 \\ \hline 192 \quad 160 \end{array}$$

$\therefore 48 \text{ l } 40 \text{ ml} \times 4 = 192 \text{ l } 160 \text{ ml}$



$$\begin{array}{r}
 \text{(g)} \quad \text{dm} \quad \text{cm} \quad \text{mm} \\
 4 \quad 6 \quad 4 \\
 \quad \quad \times \quad 5 \\
 \hline
 23 \quad 2 \quad 0
 \end{array}$$

$$\therefore 4 \text{ dm } 6 \text{ cm } 4 \text{ mm} \times 5 = 23 \text{ dm } 2 \text{ cm } 0 \text{ mm}$$

$$\begin{array}{r}
 \text{(i)} \quad \text{d} \quad \text{dm} \quad \text{cm} \\
 8 \quad 3 \quad 6 \\
 \quad \quad \times \quad 5 \\
 \hline
 41 \quad 8 \quad 0
 \end{array}$$

$$\therefore 8 \text{ m } 3 \text{ dm } 6 \text{ cm} \times 5 = 41 \text{ m } 8 \text{ dm } 0 \text{ cm}$$

$$\begin{array}{r}
 \text{(h)} \quad \text{kg} \quad \text{g} \\
 6 \quad 250 \\
 \quad \quad \times \quad 7 \\
 \hline
 43 \quad 750
 \end{array}$$

$$\therefore 9 \text{ kg } 250 \text{ g} \times 7 = 43 \text{ kg } 750 \text{ g}$$

### Exercise-9.6

1. (a)

$$\begin{array}{r}
 \text{km} \quad \text{m} \\
 0 \quad 700 \\
 5 \sqrt{3 \quad 500} \\
 \quad \underline{3 \quad 5} \\
 \quad \quad 0 \quad 0
 \end{array}$$

$$\therefore 3 \text{ km } 500 \div 5 = 700 \text{ m}$$

(c)

$$\begin{array}{r}
 \text{km} \quad \text{m} \\
 9 \quad 450 \\
 2 \sqrt{18 \quad 900} \\
 \quad \underline{18} \\
 \quad \quad 0 \quad 9 \\
 \quad \quad \quad \underline{8} \\
 \quad \quad \quad \quad 1 \quad 0 \\
 \quad \quad \quad \quad \quad \underline{1 \quad 0} \\
 \quad \quad \quad \quad \quad \quad 0
 \end{array}$$

$$\therefore 18 \text{ km } 900 \text{ m} \div 2 = 9 \text{ km } 450 \text{ m}$$

(d)

$$\begin{array}{r}
 \text{kg} \quad \text{g} \\
 1 \quad 200 \\
 2 \sqrt{2 \quad 400} \\
 \quad \underline{2} \\
 \quad \quad 0 \quad 4 \\
 \quad \quad \quad \underline{4} \\
 \quad \quad \quad \quad 0
 \end{array}$$

$$\therefore 2 \text{ kg } 400 \text{ g} \div 2 = 1 \text{ kg } 200 \text{ g}$$

(b)

$$\begin{array}{r}
 \text{km} \quad \text{m} \\
 59 \quad 869 \\
 5 \sqrt{718 \quad 428} \\
 \quad \underline{60} \\
 \quad \quad 118 \\
 \quad \quad \quad \underline{108} \\
 \quad \quad \quad \quad 104 \\
 \quad \quad \quad \quad \quad \underline{96} \\
 \quad \quad \quad \quad \quad \quad 82 \\
 \quad \quad \quad \quad \quad \quad \quad \underline{72} \\
 \quad \quad \quad \quad \quad \quad \quad \quad 108 \\
 \quad \quad \quad \quad \quad \quad \quad \quad \quad \underline{108} \\
 \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad 0
 \end{array}$$

$$\therefore 718 \text{ km } 428 \div 12 = 59 \text{ km } 869 \text{ m}$$

$$\begin{array}{r}
 \text{(e)} \quad \begin{array}{r} l \quad \text{ml} \\ 3 \quad 123 \\ \hline 3 \sqrt{9 \ 3 \ 6 \ 9} \\ \underline{9} \phantom{00} \\ 3 \phantom{00} \\ \underline{3} \phantom{00} \\ 6 \phantom{00} \\ \underline{6} \phantom{00} \\ 0 \ 9 \phantom{00} \\ \underline{0 \ 9} \phantom{00} \\ 0 \phantom{00} \end{array}
 \end{array}$$

$$\therefore 9 \text{ l } 369 \text{ ml} \div 3 = 3 \text{ l } 123 \text{ ml}$$

$$\begin{array}{r}
 \text{(g)} \quad \begin{array}{r} \text{kg} \quad \text{g} \\ 0 \quad 365 \\ \hline 5 \sqrt{1 \ 8 \ 2 \ 5} \\ \underline{1 \ 5} \phantom{00} \\ 3 \ 2 \phantom{00} \\ \underline{3 \ 0} \phantom{00} \\ 2 \ 5 \phantom{00} \\ \underline{2 \ 5} \phantom{00} \\ 0 \phantom{00} \end{array}
 \end{array}$$

$$\therefore 1 \text{ kg } 825 \text{ g} \div 5 = 365 \text{ g}$$

$$\begin{array}{r}
 \text{(i)} \quad \begin{array}{r} \text{kg} \quad \text{g} \\ 0 \quad 500 \\ \hline 3 \sqrt{1 \ 5 \ 0 \ 0} \\ \underline{1 \ 5} \phantom{00} \\ 0 \ 0 \ 0 \phantom{00} \end{array}
 \end{array}$$

$$\therefore 1 \text{ kg } 500 \text{ g} \div 3 = 500 \text{ g}$$

### Exercise-9.7

$$\begin{array}{r}
 \text{1. Total distance} \quad \begin{array}{r} 438 \text{ km } 500 \text{ m} \\ \phantom{00} \times 2 \\ \hline 876 \text{ km } 000 \text{ m} \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{2. Length of each piece} = 8 \text{ m } 64 \text{ cm} \div 4 \\
 = 2 \text{ m } 16 \text{ cm}
 \end{array}$$

$$\begin{array}{r}
 \text{(f)} \quad \begin{array}{r} \text{km} \quad \text{m} \\ 82 \quad 9 \\ \hline 3 \sqrt{2 \ 4 \ 8 \ 7} \\ \underline{2 \ 4} \phantom{00} \\ 8 \phantom{00} \\ \underline{6} \phantom{00} \\ 2 \ 7 \phantom{00} \\ \underline{2 \ 7} \phantom{00} \\ 0 \phantom{00} \end{array}
 \end{array}$$

$$\therefore 248 \text{ km } 7 \text{ m} \div 3 =$$

$$\begin{array}{r}
 \text{(h)} \quad \begin{array}{r} \text{kg} \quad \text{g} \\ 1 \quad 243 \\ \hline 15 \sqrt{1 \ 8 \ 6 \ 4 \ 5} \\ \underline{1 \ 5} \phantom{00} \\ 3 \ 6 \phantom{00} \\ \underline{3 \ 0} \phantom{00} \\ 6 \ 4 \phantom{00} \\ \underline{6 \ 0} \phantom{00} \\ 4 \ 5 \phantom{00} \\ \underline{4 \ 5} \phantom{00} \\ 0 \phantom{00} \end{array}
 \end{array}$$

$$\therefore 18 \text{ kg } 645 \text{ g} \div 15 = 1 \text{ kg } 243 \text{ g}$$

$$\begin{array}{r}
 \text{m} \quad \text{cm} \\
 2 \quad 16 \\
 \hline
 4 \sqrt{8 \quad 6 \quad 4} \\
 \underline{8} \\
 0 \quad 6 \\
 \underline{4} \\
 2 \quad 4 \\
 \underline{2 \quad 4} \\
 \times
 \end{array}$$

3. Total length of ribbon = 2m 60 cm

$$\begin{array}{r}
 \times 3 \\
 \hline
 7 \text{ m } 80 \text{ cm}
 \end{array}$$

4. Distance covered by each player = 4 km 400 m  $\div$  4  
= 1 km 100 m

$$\begin{array}{r}
 \text{km} \quad \text{m} \\
 1 \quad 100 \\
 \hline
 4 \sqrt{4 \quad 4 \quad 0 \quad 0} \\
 \underline{4} \\
 0 \quad 4 \\
 \underline{4} \\
 0
 \end{array}$$

5. Sugar consumed in (12 months) 1 year = 4 kg 500 g

$$\begin{array}{r}
 \times 12 \\
 \hline
 54 \text{ kg } 000 \text{ g} \\
 = 54 \text{ kg } 000 \text{ g}
 \end{array}$$

6. Flour used in (7 days) week = 3 kg 750 g

$$\begin{array}{r}
 \times 7 \\
 \hline
 26 \text{ kg } 250 \text{ g}
 \end{array}$$

7. Wheat each family will get = 5 kg 000 g  $\div$  4  
= 1 kg 250 g

$$\begin{array}{r}
 \text{kg} \quad \text{g} \\
 1 \quad 250 \\
 \hline
 4 \sqrt{5 \quad 0 \quad 0 \quad 0} \\
 \underline{4} \\
 1 \quad 0 \\
 \underline{8} \\
 2 \quad 0 \\
 \underline{2 \quad 0} \\
 0
 \end{array}$$

8. Total cold drink = 5l = 5000 ml  
 Capacity of 1 bottle = 250 ml  
 Number of bottle filled =  $5000 \text{ ml} \div 250 \text{ ml}$   
 = 20

$$250 \overline{)5000} \begin{array}{r} 20 \\ \underline{500} \\ 00 \end{array}$$

9. Water in 1 glass = 0 l 350 ml  
 Water in 8 glasses = 0 l 350 ml  
 $\times 8$   
 Water in 8 glasses = 2 l 800 ml

10. Number of drums filled =  $100 \text{ l} \div 10 \text{ l}$   
 = 10

### WORKSHEET

1. (a)

km	hm	dam	m
88	3	9	1
+	9	9	9
<b>89</b>	<b>3</b>	<b>9</b>	<b>0</b>

(b)

km	hm	cm
245	853	73
+	64	999
<b>180</b>	<b>853</b>	<b>84</b>

(c)

483	kg	23	g
		$\times 8$	
<b>3864</b>	<b>kg</b>	<b>184</b>	<b>g</b>

(d)

	l	dal
	1	5
$7\sqrt{\phantom{00}}$	3	8
	3	5
	3	5
	3	5
	0	

$\therefore 39 \text{ kl } 5 \text{ dal} \div 7 = 5 \text{ kl } 5 \text{ dal}$

2. (a) 550 mm  
 =  $550 \div 10 \text{ cm}$   
 = 55 cm

(b) 6144 g  
 =  $6000 \text{ g} + 144 \text{ g}$   
 =  $6000 \div 1000 \text{ kg} + 144 \text{ g}$   
 = 6 kg 144 g

(c) 4573 cm  
 =  $4500 \text{ cm} + 73 \text{ cm}$   
 =  $4500 \div 100 \text{ m} + 73 \text{ cm}$   
 = 45 m + 73 cm  
 = 45 m 73 cm

(d) 1829 ml  
 =  $1000 \text{ ml} + 829 \text{ ml}$   
 =  $1000 \div 1000 \text{ l} + 829 \text{ ml}$   
 = 1 l 829 ml

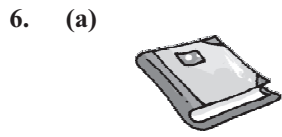
3. (a) 95 l 6 ml  
 =  $9000 \text{ ml} + 516 \text{ ml}$   
 =  $9000 \div 1000 \text{ l} + 516 \text{ ml}$   
 = 9 l + 516 ml  
 = 9 l 516 ml

(b) 8467 mm  
 =  $8000 \text{ mm} + 467 \text{ mm}$   
 =  $8000 \div 1000 \text{ m} + 460 \text{ mm} + 7 \text{ mm}$   
 = 8 m +  $460 \div 10 \text{ cm} + 7 \text{ mm}$   
 = 8 m + 46 cm + 7 mm  
 = 8 m 46 cm 7 mm

(c)  $3546 \text{ mg}$   
 $= 3000 \text{ mg } 546 \text{ mg}$   
 $= 3000 \div 1000 \text{ g} + 540 \text{ mg} + 6 \text{ mg}$   
 $= 3 \text{ g} + 540 \div 10 \text{ mg} + 6 \text{ mg}$   
 $= 3 \text{ g} + 54 \text{ g} + 6 \text{ mg}$   
 $= 3 \text{ g } 54 \text{ g } 6 \text{ mg}$

4. Oil in Ist bottle      955 ml  
 Oil in IInd bottle    + 1215 ml  
 Oil in both bottles    2170 ml

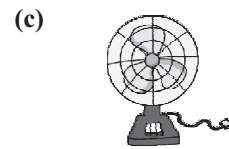
5. Kerosene              51400 ml  
 Kerosene used        - 31250 ml  
 Kerosene left         21150 ml



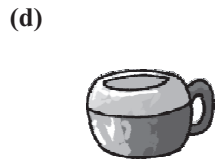
- (i) 150 grams
- (ii) 50 kilograms



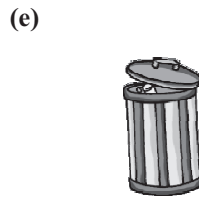
- (i) 70 kilograms
- (ii) 40 grams



- (i) 20 kilograms
- (ii) 19 grams



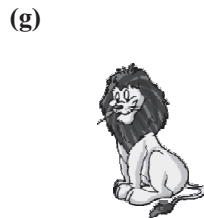
- (i) 28 grams
- (ii) 300 kilograms



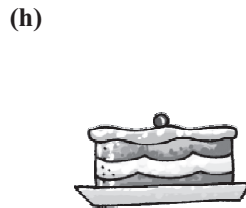
- (i) 200 grams
- (ii) 4 kilograms



- (i) 20 kilograms
- (ii) 700 grams



- (i) 80 grams
- (ii) 200 kilograms



- (i) 68 kilograms
- (ii) 400 grams



- (i) 4 kilograms
- (ii) 150 kilograms



**FORMATIVE ASSESSMENT-2**

1. (a)

$$\begin{array}{r} 22 \overline{) 2048} \quad (93 \\ \underline{198} \\ 68 \\ \underline{66} \\ 2 \end{array}$$

∴ Quotient = 93  
Remainder = 2

(c)

$$\begin{array}{r} 727 \overline{) 6660} \quad (92 \\ \underline{648} \\ 180 \\ \underline{144} \\ 36 \end{array}$$

∴ Quotient = 92  
Remainder = 36

2. (a)

$$\begin{array}{r} 17 \overline{) 153} \quad (9 \\ \underline{153} \\ 0 \end{array}$$

∴ Remainder = 0  
∴ 153 is multiple of 17

(c) No, 6 is not the multiple of zero

3. (a)  $\frac{3}{7} = \frac{3 \times 7}{7 \times 7} = \frac{21}{49}$

(c)  $\frac{3}{7} = \frac{3 \times 9}{7 \times 9} = \frac{27}{63}$

4. (a)  $154 \times (39 + 63) = (154 \times 39) + (154 \times 63)$

(b)  $234 \times (19 + 34) = (234 \times 19) + (234 \times 34)$

5. (a)

$$\begin{array}{r} 2 \overline{) 437} \quad (218 \\ \underline{4} \\ 03 \\ \underline{02} \\ 17 \\ \underline{16} \\ 1 \end{array}$$

∴ Quotient = 218  
Remainder = 1

(b) Divident = Divisor × Q + R

$$\begin{aligned} &= 45 \times 99 + 33 \\ &= 4455 + 33 \\ &= 4488 \end{aligned}$$

(d) Divident = Divisor × Q + R

$$\begin{aligned} &= 75 \times 80 + 7 \\ &= 6000 + 7 \\ &= 6007 \end{aligned}$$

(b)

$$\begin{array}{r} 19 \overline{) 95} \quad (5 \\ \underline{95} \\ 0 \end{array}$$

∴ Remainder = 0  
∴ 95 is multiple of 19

(d) Yes, 24 is multiple of 1

(b)  $\frac{3}{7} = \frac{3 \times 11}{7 \times 11} = \frac{33}{77}$

(d)  $\frac{3}{7} = \frac{3 \times 15}{7 \times 15} = \frac{45}{105}$

(b)

$$\begin{array}{r} 7 \overline{) 752} \quad (107 \\ \underline{7} \\ 52 \\ \underline{49} \\ 3 \end{array}$$

∴ Quotient = 107  
Remainder = 3

6. (a)  $\frac{30}{100} = \frac{3}{10}$

(b)  $\frac{70}{600} = \frac{7}{60}$

7.  $\frac{1}{5}, \frac{3}{5}$

$\frac{1}{5} < \frac{3}{5}$

∴ Suresh's sister had more apple

8. (a)

km	hm	dam	m
88	3	9	1
+	9	9	9
<b>89</b>	<b>3</b>	<b>9</b>	<b>0</b>

(b)

km	hm	cm
245	853	73
– 64	999	89
<b>310</b>	<b>853</b>	<b>62</b>

9. (a) 2 and 5 both : 10 and 20

(b) 6 and 9 both : 18 and 36

(c) 10, 2, and 5 : 10 and 20

### SUMMATIVE ASSESSMENT-1

1. (a)  $7165 + 0 + 8369 = 8369 + 0 + 7165$

(b)  $2343 + 5363 + 8313 = 8313 + 2342 + 5362$ .

2. (a)

$$\begin{array}{r} 9000 \\ - 5937 \\ \hline \end{array}$$

$$\begin{array}{r} 9000 \\ - 5937 \\ \hline 3063 \end{array}$$

∴ 3063 should be added to 5937 to get 9000

(b)

$$\begin{array}{r} 4813 \\ + 3247 \\ \hline \end{array}$$

$$\begin{array}{r} 4813 \\ + 3247 \\ \hline 8060 \end{array}$$

$$\begin{array}{r} 4813 \\ + 3247 \\ \hline 8060 \end{array}$$

∴ from 8060 we should subtract 4813 to 3247

3. (a)

$$\begin{array}{r} 600 \\ \times 15 \\ \hline 3000 \\ 600 \times \\ \hline 9000 \end{array}$$

(b)

$$\begin{array}{r} 48 \\ \times 200 \\ \hline 00 \\ 00 \times \\ 96 \times \times \\ \hline 9600 \end{array}$$

∴  $600 \times 15 = 9000$

∴  $48 \times 200 = 9600$

(c)

$$\begin{array}{r} 29 \\ \times 300 \\ \hline 00 \\ 00 \times \\ 87 \times \times \\ \hline 8700 \end{array}$$

(d)

$$\begin{array}{r} 500 \\ \times 18 \\ \hline 4000 \\ 50 \times \times \\ \hline 9000 \end{array}$$

∴  $29 \times 300 = 8700$

∴  $500 \times 18 = 9000$

4. Chart papers needed =  $176 \div 8$   
 $= 22$

$$\begin{array}{r} 8 \overline{) 176} \quad (22 \\ \underline{16} \\ 16 \\ \underline{16} \\ 0 \end{array}$$

5. (a) 45 a multiple of 2?    
 (b) 90 a multiple of 3?

6. (a)  $\frac{1}{12} + \frac{6}{12} + \frac{8}{12}$   
 $= \frac{1+6+8}{12} = \frac{15}{12} = 1 \frac{3}{12} = 1 \frac{1}{4}$   
 (b)  $\frac{6}{20} + \frac{12}{20} + \frac{14}{20}$   
 $= \frac{6+12+14}{20} = \frac{32}{20} = 1 \frac{12}{20} = 1 \frac{3}{5}$

7. (a) LIV < LVI (b) CIX < CLX  
 (c) XVI > XIV (d) XXXIV < XXXVI
8. (a) 1 m = 100 cm True (b) 1 km = 100 m False  
 (c) 100 mL = 1 L False (d) 1000 mL = 1 L True  
 (e) 1 kg = 1000 g True (f) 100 g = 1 kg False  
 (g) 10 cm = 1 dm True (h) 10 dm = 1 km False

9. Number of drums filled =  $100 \text{ l} \div 10 \text{ l}$   
 $= 10$

10. (a) 11, 13, 15, 17, 19, 21 (b) 113, 115, 117, 119, 121, 123  
 (c) 37, 39, 41, 43, 45, 47 (d) 77, 79, 81, 83, 85, 87

## 10. AREA AND PERIMETER

### Exercise-10.1

1. (a) Perimeter of Square =  $4 \times \text{side}$   
 $= 4 \times 7 = 28 \text{ cm}$   
 (b) Perimeter of Pentagon =  $5 \times \text{side}$   
 $= 5 \times 4 = 20 \text{ cm}$   
 (c) Perimeter of Hexagon =  $6 \times \text{side}$   
 $= 6 \times 8 = 48 \text{ cm}$   
 (d) Perimeter of Rectangle =  $2(l + b)$   
 $= 2(8 + 6) = 2(14) = 28 \text{ cm}$   
 (e) Perimeter of equilateral triangle =  $3 \times \text{side} = 3 \times 6 = 18 \text{ cm}$
2. (a) Perimeter =  $2(l + b)$   
 $= 2(5 + 2) = 2 \times 7 = 14 \text{ cm}$   
 (b) Perimeter =  $3 + 5 + 7 = 15 \text{ cm}$   
 (c) Perimeter =  $5 + 6 + 3 + 5 = 19 \text{ cm}$   
 (d) Perimeter =  $2 + 3 + 4 + 5 = 14 \text{ cm}$   
 (e) Perimeter =  $2 + 2 + 3 + 2 + 3 + 4 + 8 + 4 = 28 \text{ cm}$   
 (f) Perimeter =  $1 + 2 + 2 + 2 + 1 + 6 + 1 + 2 + 2 + 2 + 1 + 6 = 28 \text{ cm}$



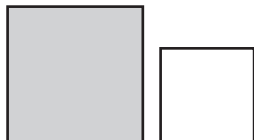
### Exercise-10.2

- Perimeter of triangle =  $(10 + 14 + 15)$  inches  
= 39 inches
- Wire needed = Perimeter of playground  
=  $2(l + b)$   
=  $2(100 + 30) = 2 \times 30 = 260$  m
- Perimeter of square =  $4 \times \text{side}$   
 $20 = 4 \text{ side}$   
 $20 \div 4 = \text{side}$   
5 feet = side
- Perimeter of pentagon =  $5 \times \text{side}$   
 $100 = 5 \times \text{side}$   
 $100 \div 5 = \text{side}$   
20 cm = side
- Length =  $2 \times \text{breadth}$   
=  $2 \times 3$   
= 6 cm  
Perimeter of rectangle =  $2(l + b)$   
=  $2(6 + 3) = 2 \times 9 = 18$  cm
- Perimeter of square =  $4 \times \text{side}$   
 $36 = 4 \times \text{side}$   
 $36 \div 4 = \text{side}$   
9 cm = side
- Wooden stick needed =  $2(l + b)$   
=  $2(40 + 25) = 2 \times 65 = 130$  cm
- Perimeter of larger square =  $4 \times 29 = 116$  cm  
Perimeter of smaller square =  $4 \times 14 = 56$  cm  
difference =  $\underline{60}$  cm
- Perimeter of triangular park =  $3 \times 30 = 90$  m = 9000 cm  
length of each step = 60 cm  
 $\therefore$  Number of steps =  $9000 \div 60$   
= 150 steps
- Fence =  $2(l + b)$   
=  $2(23 + 36) = 2 \times 59 = 118$  m  
Cost of fence = ₹  $(18 \times 125)$   
= ₹ 14750

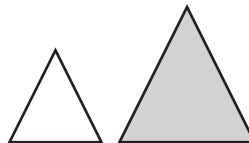
$$\begin{array}{r} 60 \overline{)9000} \quad 150 \\ \underline{60} \\ 300 \\ \underline{300} \\ 0 \end{array}$$

### Exercise-10.3

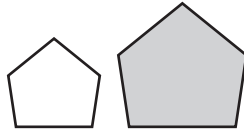
1. (a)



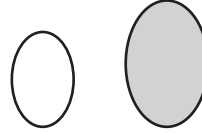
(b)



(c)



(d)



**Exercise-10.4**

(a)  $5 \text{ cm}^2$

(b)  $20 \text{ cm}^2$

(c)  $9 \text{ cm}^2$

(d)  $9 \text{ cm}^2$

(e)  $8 \text{ cm}^2$

(f)  $13 \text{ cm}^2$

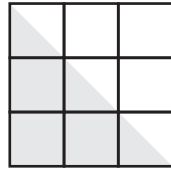
(g)  $13 \text{ cm}^2$

(h)  $5 \text{ cm}^2$

(i)  $6 \text{ cm}^2$

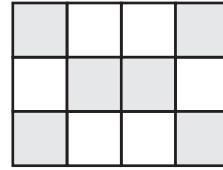
**Exercise-10.5**

(a)



$$\begin{aligned} \text{Area} &= 3 + 3 \times \frac{1}{2} = 3 + \frac{3}{2} \\ &= 3 + 1\frac{1}{2} = 4\frac{1}{2} \text{ cm}^2 \end{aligned}$$

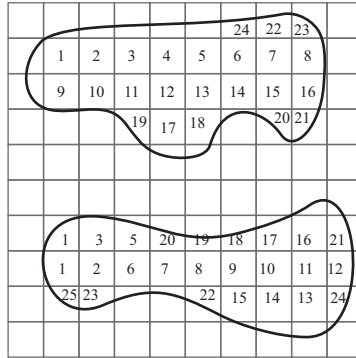
(b)



$$\text{Area} = 6 \text{ cm}^2$$

**Exercise-10.6**

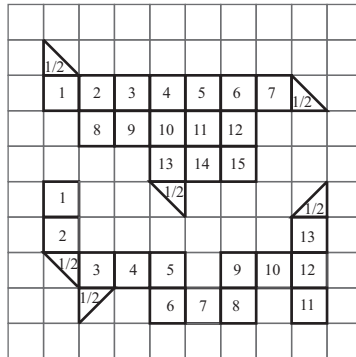
1.



Area =  $24 \text{ cm}^2$

Area =  $25 \text{ cm}^2$

2.



Area =  $16\frac{1}{2} \text{ cm}^2$

Area =  $14\frac{1}{2} \text{ cm}^2$



### Exercise-10.7

1. (a) Area of square = Side  $\times$  Side  
 $= 8 \times 8 = 64 \text{ cm}^2$
- (b) Area of triangle =  $\frac{1}{2} \times$  base  $\times$  altitude  
 $= \frac{1}{2} \times 8 \times 12 = 48 \text{ m}^2$   
 $= 48 \text{ m}^2$
- (c) Area of rectangle =  $l \times b$   
 $= 12 \times 5 = 60 \text{ cm}^2$
- (d) Area of triangle =  $\frac{1}{2} \times$  base  $\times$  altitude  
 $= \frac{1}{2} \times 11 \times 16$   
 $= 88 \text{ cm}^2$
2. (a) Area of rectangle =  $l \times b$   
 $= 8 \times 3 = 24 \text{ cm}^2$
- (b) Area of rectangle =  $l \times b$   
 $= 11 \times 4 = 44 \text{ cm}^2$
- (c) Area of rectangle =  $l \times b$   
 $= 15 \times 12 = 180 \text{ m}^2$
3. (a) Area of triangle =  $\frac{1}{2} \times$  base  $\times$  height  
 $= \frac{1}{2} \times 10 \times 7 = 35 \text{ cm}^2$
- (b) Area of triangle =  $\frac{1}{2} \times$  base  $\times$  height  
 $= \frac{1}{2} \times 8 \times 4 = 16 \text{ cm}^2$
- (c) Area of triangle =  $\frac{1}{2} \times$  base  $\times$  height  
 $= \frac{1}{2} \times 9 \times 12 = 54 \text{ cm}^2$
4. (a) Area of square = side  $\times$  side =  $6 \times 6 = 36 \text{ cm}^2$
- (b) Area of square = side  $\times$  side =  $9 \times 9 = 81 \text{ cm}^2$
- (c) Area of square =  $12 \times 12 = 144 \text{ cm}^2$
- (d) Area of square =  $4 \times 4 = 16 \text{ m}^2$
5. (a) Area of carpet needed =  $l \times b$   
 $= 16 \times 12 = 192 \text{ m}^2$   
Cost of carpet = ₹  $20 \times 192$   
 $= ₹ 9600$

(b) Area of triangular plot  $= \frac{1}{2} \times \text{base} \times \text{height}$   
 $= \frac{1}{2} \times 24 \times 12$   
 $= 144 \text{ m}^2$

(c) Area of floor it cover  $= \text{Side} \times \text{Side}$   
 $= 7 \times 7 = 49 \text{ m}^2$

(d) Area of room  $= l \times b$   
 $= 15 \times 8 = 120 \text{ m}^2$   
 Cost of tiles  $= ₹ 75 \times 120$   
 $= ₹ 9000$

(e) Area of square garden  $= 100 \text{ m}^2$   
 $\text{side} \times \text{side} = 10 \text{ m} \times 10 \text{ m}$   
 $\text{side of square garden} = 10 \text{ m}$

(f) Perimeter of park  $= 2(l + b)$   
 $140 = 2(45 + b)$   
 $140 \div 2 = 45 + b$   
 $70 = 45 + b$   
 $70 - 45 = b$   
 $25 \text{ cm} = b$

$\therefore$  breadth of park  $= 25 \text{ cm}$

(g) Area of triangle  $= 28 \text{ cm}^2$   
 $\frac{1}{2} \times \text{base} \times \text{height} = 28$   
 $\frac{1}{2} \times 8 \times \text{height} = 28$   
 $4 \times \text{height} = 28$   
 $\text{height} = 28 \div 4$   
 $\text{height} = 7 \text{ cm}$

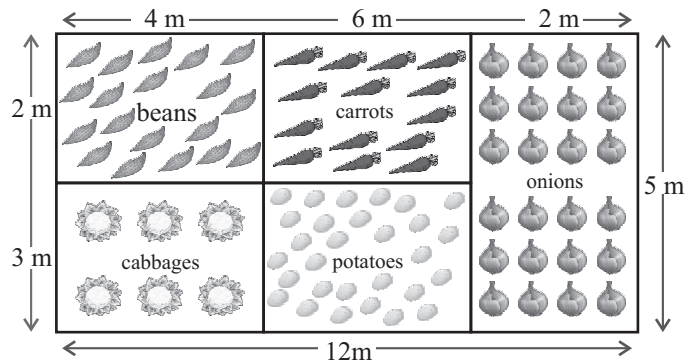
**Multiple Choice Questions (MCQs)**

1. (a)

2. (c)

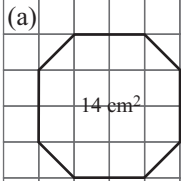
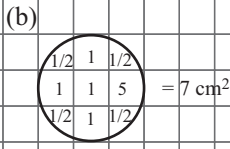
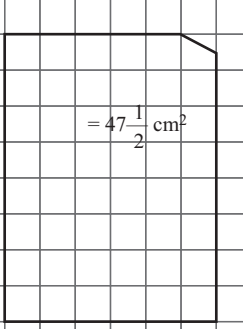
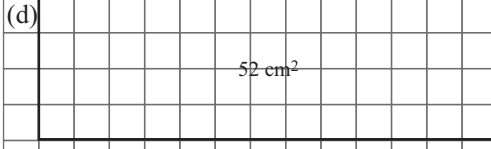
3. (d)

**Vegetables Garden**



- (a)  $2 \times 8 = 16 \text{ m}^2$                       (b)  $6 \times 2 = 12 \text{ m}^2$   
 (c)  $6 \times 3 = 18 \text{ m}^2$                       (d) None  
 (e) Carrot, Cabbage                      (f)  $5 \times 12 = 60 \text{ m}^2$

**WORKSHEET**

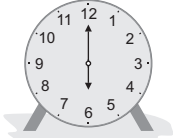

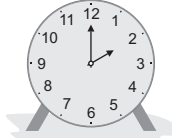


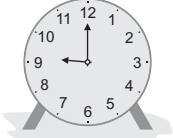
1. (a)  (b)  (c)   
 (d) 

2. Do your self  
 3. (a) Area =  $6 \times 3 = 18 \text{ m}^2$ , Perimeter =  $2(6 + 3) = 18 \text{ m}$   
 (b) Area =  $9 \times 8 = 72 \text{ m}^2$ , Perimeter =  $2(9 + 8) = 34 \text{ m}$   
 (c) Area =  $1.5 \times 1 = 1.5 \text{ m}^2$ , Perimeter =  $2(1.5 + 1) = 5 \text{ m}$   
 (d) Perimeter =  $4 \times 20 = 80 \text{ m}$

**11. Time**

**Exercise-11.1**

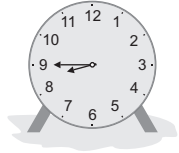
1. (a) The short hand of the clock tells us the hours.  
 (b) The long hand of the clock tells us the minutes.  
 (c) An hour has 60 minutes.  
 (d) A minute has 60 seconds.  
 (e) Between two adjacent numbers on the clock face there are 5 minutes.

2. (a)  6 : 00  
6 o' clock  
 5 : 00  
5 o' clock  
 (b)  2 : 00  
2 o' clock  
 3 : 00  
3 o' clock  
 (c)  10 : 00  
10 o' clock  
 9 : 00  
9 o' clock





3. (a)



Quarter to nine  
8 : 45

(b)



Ten minutes to twelve  
11 : 50

(c)



Twenty minutes past four  
4 : 20

### Exercise-11.2

1. (a) 1 to 3 = 10 minutes      (b) 3 to 4 = 5 minutes  
 (c) 5 to 11 = 30 minutes      (d) 6 to 10 = 20 minutes  
 (e) 8 to 2 = 30 minutes      (f) 7 to 1 = 30 minutes

### Exercise-11.3

1. (a) The sun rose at 6:15 am today.  
 (b) Mr Malhotra is back from his office at 7:00 pm.  
 (c) Neha takes breakfast at 8:45 am.  
 (d) Shweta goes to bed at 10:00 pm.  
 (e) Richa cleans his teeth at 6:40 am.
2. (a) 6:15 in the evening 6 : 15 pm .  
 (b) Half past twelve at night 12 : 30 am.  
 (c) Quarter to three past noon 2 : 45 pm.  
 (d) Quarter past eight in the morning 8 : 15 am.  
 (e) Half past three at night 3 : 30 am.  
 (f) Five minutes to ten at night 9 : 55 pm.

### Exercise-11.4

1. (a) 0200 = 2 : 00 am      (b) 2010 = 8 : 10 pm  
 (c) 2330 = 11 : 30 pm      (d) 2235 = 10 : 35 pm  
 (e) 1815 = 6 : 15 pm      (f) 0345 = 3 : 45 am  
 (g) 0115 = 1 : 15 am      (h) 1345 = 1 : 45 pm
2. (a) 12:05 pm = 1205 hours      (b) 7:10 am = 0710 hours  
 (c) 12:30 pm = 1230 hours      (d) 10:10 pm = 2210 hours  
 (e) 8:50 pm = 2050 hours      (f) 8:40 pm = 2040 hours  
 (g) 3:10 am = 0310 hours      (h) 9:30 pm = 2130 hours
3. (a) 1230 hours      (b) 4 : 30 pm or 1630 hours  
 (c) 12 hours 45 minutes      (d) 0400hours

### Exercise-11.5

1. (a) 3 hours =  $3 \times 60 = 180$  minutes  
 (b) 12 hours =  $12 \times 60 = 720$  minutes
- (c)  $5\frac{1}{2}$  hours =  $\frac{11}{2}$  hours =  $\frac{11}{2} \times 60$  minutes = 330 minutes
- (d)  $13\frac{1}{4}$  hours =  $\frac{53}{4}$  hours =  $\frac{53}{4} \times 60$  minutes =  $53 \times 15 = 795$  minutes



- (e) 2 hours 40 minutes =  $[(2 \times 60) + 40]$  minutes  
= 160 minutes
- (f) 9 hours 55 minutes =  $[(9 \times 60) + 55]$  minutes = 595 minutes
2. (a) 600 minutes =  $(600 \div 60)$  hours = 10 hours
- (b) 1076 minutes = 1020 minutes + 56 minutes
- (c) 454 minutes = 420 minutes + 34 minutes  
=  $(420 \div 60)$  hours + 34 minutes  
= 7 hours 34 minutes
- (d) 3480 minutes =  $(3480 \div 60)$  hours  
= 58 hours
- (e) 687 minutes = 660 minutes + 27 minutes  
=  $(660 \div 60)$  hours + 27 minutes  
= 11 hours 27 minutes
- (f) 1006 minutes = 960 minutes + 46 minutes  
=  $960 \div 60$  hours + 46 minutes  
= 16 hours + 46 minutes  
= 16 hours 46 minutes
3. (a) 3 minutes 15 sec =  $3 \times 60$  sec + 15 sec  
= 180 sec + 15sec  
= 195 sec
- (b) 2 minute =  $2 \times 60$  sec = 120 seconds
- (c)  $1\frac{3}{2}$  minutes =  $\frac{3}{2} \times 60$  seconds  
=  $3 \times 30 = 90$  seconds
- (d)  $4\frac{1}{4}$  minutes =  $\frac{17}{4}$  minutes  
=  $\frac{17}{4} \times 60$  seconds  
=  $17 \times 15$  seconds  
= 255 seconds
- (e) 5 min 20sec =  $5 \times 60$  sec + 20sec  
= 300 sec + 20sec = 320 sec
- (f) 2 hours =  $2 \times 60$  minutes  
=  $2 \times 60 \times 60$  seconds  
= 7200 seconds
4. (a) 3 minutes =  $3 \times 60$  seconds = 180 seconds
- (b) 7 minutes =  $7 \times 60$  seconds = 420seconds
- (c) 9 minutes =  $9 \times 60$  seconds = 540 seconds
- (d) 15 minutes =  $15 \times 60$  sec = 900 seconds
- (e) 31 minutes =  $31 \times 60$  seconds = 1860 seconds
- (f) 46 minutes =  $46 \times 60$  seconds = 2760 seconds
- (g) 22 minutes =  $22 \times 60$  seconds = 1320 seconds
- (h) 48 minutes =  $48 \times 60$  seconds = 2880 seconds

### Exercise-11.6

1. (a) 11:00 am to 3:00 pm = 4 hours  
 (b) 12:45 am to 8:00 pm = 19 hours 15 minutes  
 (c) 12:05 pm to 7:30 pm = 7 hours 25 minutes  
 (d) 8:00 am to 1:00 pm = 5 hours
2. (a) 10:30 pm to 11:00 pm = 30 minutes  
 (b) 12:45 pm to 1:30 pm = 45 minutes  
 (c) 7:30 am to 8:15 am = 45 minutes  
 (d) 3 o'clock to quarter to four = 45 minutes  
 (e) Quarter to two to quarter past two = 30 minutes
3. (a) 7:20 am to 1:40 pm = 6 hours 20 minutes  
 (b) 9:20 am to 5:40 pm = 8 hours 20 minutes  
 (c) 10:30 pm to 6:40 am = 8 hours 10 minutes  
 (d) Starting time = 8:10 am  
 Reaching time = 8:10 am to 7 hours = 3:10 pm  
 (e) Reaching time = 8:30 pm  
 Starting time = 8:30 pm - 13 hours = 7:30 am

### Exercise-11.7

- | <p>(a)</p> <table style="margin-left: 20px;"> <thead> <tr><th>hr</th><th>min</th></tr> </thead> <tbody> <tr><td>2</td><td>35</td></tr> <tr><td>+ 1</td><td>25</td></tr> <tr><td style="border-top: 1px solid black;">3</td><td style="border-top: 1px solid black;">60</td></tr> <tr><td>-</td><td>60</td></tr> <tr><td style="border-top: 1px solid black;">4</td><td style="border-top: 1px solid black;">00</td></tr> </tbody> </table> <p>4 hr</p> | hr  | min | 2 | 35 | + 1 | 25 | 3  | 60 | -  | 60 | 4   | 00 | <p>(b)</p> <table style="margin-left: 20px;"> <thead> <tr><th>hr</th><th>min</th></tr> </thead> <tbody> <tr><td>4</td><td>18</td></tr> <tr><td>+ 7</td><td>56</td></tr> <tr><td style="border-top: 1px solid black;">11</td><td style="border-top: 1px solid black;">74</td></tr> <tr><td>-</td><td>60</td></tr> <tr><td style="border-top: 1px solid black;">12</td><td style="border-top: 1px solid black;">14</td></tr> </tbody> </table> <p>12 hrs 14 min</p> | hr  | min | 4  | 18 | + 7 | 56 | 11 | 74 | -  | 60 | 12  | 14 | <p>(c)</p> <table style="margin-left: 20px;"> <thead> <tr><th>hr</th><th>min</th></tr> </thead> <tbody> <tr><td>9</td><td>38</td></tr> <tr><td>+ 6</td><td>28</td></tr> <tr><td style="border-top: 1px solid black;">15</td><td style="border-top: 1px solid black;">66</td></tr> <tr><td>-</td><td>60</td></tr> <tr><td style="border-top: 1px solid black;">16</td><td style="border-top: 1px solid black;">6</td></tr> </tbody> </table> <p>16 hrs 6 min</p> | hr   | min | 9  | 38 | + 6 | 28 | 15 | 66 | - | 60 | 16 | 6 |
|--|-----|-----|---|----|-----|----|----|----|--|----|-----|----|---|-----|-----|----|----|-----|----|----|----|--|----|-----|----|---|------|-----|----|----|-----|----|----|----|---|----|----|---|
| hr   | min |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| 2  | 35  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| + 1  | 25  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| 3  | 60  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| -  | 60  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| 4  | 00  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| hr   | min |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| 4  | 18  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| + 7  | 56  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| 11   | 74  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| -  | 60  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| 12   | 14  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| hr   | min |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| 9  | 38  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| + 6  | 28  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| 15   | 66  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| -  | 60  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| 16   | 6   |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| <p>(d)</p> <table style="margin-left: 20px;"> <thead> <tr><th>hr</th><th>min</th></tr> </thead> <tbody> <tr><td>7</td><td>32</td></tr> <tr><td>+ 6</td><td>24</td></tr> <tr><td style="border-top: 1px solid black;">13</td><td style="border-top: 1px solid black;">56</td></tr> </tbody> </table> <p>13 hrs 56 min</p>   | hr  | min | 7 | 32 | + 6 | 24 | 13 | 56 | <p>(e)</p> <table style="margin-left: 20px;"> <thead> <tr><th>hr</th><th>min</th></tr> </thead> <tbody> <tr><td>10</td><td>55</td></tr> <tr><td>+ 6</td><td>15</td></tr> <tr><td style="border-top: 1px solid black;">16</td><td style="border-top: 1px solid black;">70</td></tr> <tr><td>-</td><td>60</td></tr> <tr><td style="border-top: 1px solid black;">17</td><td style="border-top: 1px solid black;">10</td></tr> </tbody> </table> <p>17 hrs 10 min</p> | hr | min | 10 | 55  | + 6 | 15  | 16 | 70 | -   | 60 | 17 | 10 | <p>(f)</p> <table style="margin-left: 20px;"> <thead> <tr><th>hr</th><th>min</th></tr> </thead> <tbody> <tr><td>8</td><td>34</td></tr> <tr><td>+ 12</td><td>34</td></tr> <tr><td style="border-top: 1px solid black;">20</td><td style="border-top: 1px solid black;">68</td></tr> <tr><td>-</td><td>60</td></tr> <tr><td style="border-top: 1px solid black;">21</td><td style="border-top: 1px solid black;">8</td></tr> </tbody> </table> <p>21 hrs 8 min</p> | hr | min | 8  | 34  | + 12 | 34  | 20 | 68 | -   | 60 | 21 | 8  |   |    |    |   |
| hr   | min |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| 7  | 32  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| + 6  | 24  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| 13   | 56  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| hr   | min |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| 10   | 55  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| + 6  | 15  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| 16   | 70  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| -  | 60  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| 17   | 10  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| hr   | min |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| 8  | 34  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| + 12   | 34  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| 20   | 68  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| -  | 60  |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |
| 21   | 8   |     |   |    |     |    |    |    |  |    |     |    |   |     |     |    |    |     |    |    |    |  |    |     |    |   |      |     |    |    |     |    |    |    |   |    |    |   |

### Exercise-11.8

- | <p>(a)</p> <table style="margin-left: 20px;"> <thead> <tr><th>hr</th><th>min</th></tr> </thead> <tbody> <tr><td><del>5</del></td><td>(60)</td></tr> <tr><td>5</td><td>6</td></tr> <tr><td>- 1</td><td>34</td></tr> <tr><td style="border-top: 1px solid black;">3</td><td style="border-top: 1px solid black;">32</td></tr> </tbody> </table> <p>3 hrs 32 min</p> | hr   | min | <del>5</del> | (60) | 5 | 6 | - 1 | 34 | 3 | 32 | <p>(b)</p> <table style="margin-left: 20px;"> <thead> <tr><th>hr</th><th>min</th></tr> </thead> <tbody> <tr><td><del>5</del></td><td>(60)</td></tr> <tr><td>5</td><td>33</td></tr> <tr><td>- 2</td><td>54</td></tr> <tr><td style="border-top: 1px solid black;">2</td><td style="border-top: 1px solid black;">39</td></tr> </tbody> </table> <p>2 hrs 9 min</p> | hr | min | <del>5</del> | (60) | 5 | 33 | - 2 | 54 | 2 | 39 | <p>(c)</p> <table style="margin-left: 20px;"> <thead> <tr><th>hr</th><th>min</th></tr> </thead> <tbody> <tr><td><del>7</del></td><td>(60)</td></tr> <tr><td>8</td><td>22</td></tr> <tr><td>+ 4</td><td>45</td></tr> <tr><td style="border-top: 1px solid black;">3</td><td style="border-top: 1px solid black;">37</td></tr> </tbody> </table> <p>3 hrs 37 min</p> | hr | min | <del>7</del> | (60) | 8 | 22 | + 4 | 45 | 3 | 37 |
|---|------|-----|--------------|------|---|---|-----|----|---|----|---|----|-----|--------------|------|---|----|-----|----|---|----|--|----|-----|--------------|------|---|----|-----|----|---|----|
| hr  | min  |     |              |      |   |   |     |    |   |    |   |    |     |              |      |   |    |     |    |   |    |  |    |     |              |      |   |    |     |    |   |    |
| <del>5</del>  | (60) |     |              |      |   |   |     |    |   |    |   |    |     |              |      |   |    |     |    |   |    |  |    |     |              |      |   |    |     |    |   |    |
| 5   | 6    |     |              |      |   |   |     |    |   |    |   |    |     |              |      |   |    |     |    |   |    |  |    |     |              |      |   |    |     |    |   |    |
| - 1   | 34   |     |              |      |   |   |     |    |   |    |   |    |     |              |      |   |    |     |    |   |    |  |    |     |              |      |   |    |     |    |   |    |
| 3   | 32   |     |              |      |   |   |     |    |   |    |   |    |     |              |      |   |    |     |    |   |    |  |    |     |              |      |   |    |     |    |   |    |
| hr  | min  |     |              |      |   |   |     |    |   |    |   |    |     |              |      |   |    |     |    |   |    |  |    |     |              |      |   |    |     |    |   |    |
| <del>5</del>  | (60) |     |              |      |   |   |     |    |   |    |   |    |     |              |      |   |    |     |    |   |    |  |    |     |              |      |   |    |     |    |   |    |
| 5   | 33   |     |              |      |   |   |     |    |   |    |   |    |     |              |      |   |    |     |    |   |    |  |    |     |              |      |   |    |     |    |   |    |
| - 2   | 54   |     |              |      |   |   |     |    |   |    |   |    |     |              |      |   |    |     |    |   |    |  |    |     |              |      |   |    |     |    |   |    |
| 2   | 39   |     |              |      |   |   |     |    |   |    |   |    |     |              |      |   |    |     |    |   |    |  |    |     |              |      |   |    |     |    |   |    |
| hr  | min  |     |              |      |   |   |     |    |   |    |   |    |     |              |      |   |    |     |    |   |    |  |    |     |              |      |   |    |     |    |   |    |
| <del>7</del>  | (60) |     |              |      |   |   |     |    |   |    |   |    |     |              |      |   |    |     |    |   |    |  |    |     |              |      |   |    |     |    |   |    |
| 8   | 22   |     |              |      |   |   |     |    |   |    |   |    |     |              |      |   |    |     |    |   |    |  |    |     |              |      |   |    |     |    |   |    |
| + 4   | 45   |     |              |      |   |   |     |    |   |    |   |    |     |              |      |   |    |     |    |   |    |  |    |     |              |      |   |    |     |    |   |    |
| 3   | 37   |     |              |      |   |   |     |    |   |    |   |    |     |              |      |   |    |     |    |   |    |  |    |     |              |      |   |    |     |    |   |    |





**Exercise-11.10**

1. (a) There 52 weeks in a years.  
(b) May          June          July  
16 + 30 + 10 = 56 days  
(c) There are 5 Sundays in January  
(d)          December          January  
Days 6 + 2 = 8 days  
(e) January  
(f) January, February, March, April  
(g) 6th September
2. (a) 2 Months =  $2 \times 30$  days = 60 days  
(b) February          March          October  
28 + 31 + 31 = 90 days  
(c) 3 weeks + 4 days  
=  $3 \times 7$  days + 4 days  
= 21 days + 4 days  
= 25 days  
(d) June + 3 weeks + 20 days  
= 30 days +  $3 \times 7$  days + 20 days  
= 30 days + 21 days + 20 days  
= 71 days  
(e) 2 weeks + 3 weeks = 5 weeks  
 $5 \times 7$  days = 35 days  
(f)          December + January + February  
31 + 31 + 28 = 90 days
3. (a)  $1\frac{1}{4}$  days  
=  $\frac{5}{4} \times 24$  hours =  $5 \times 6$  = 30 hours  
(b) half a days = 12 hours  
(c)  $2\frac{1}{2}$  days =  $\frac{5}{2} \times 24$  hours =  $5 \times 12$  = 60 hours  
(d) 1 week and  $\frac{1}{4}$  day  
=  $1 \times 7$  days +  $\frac{1}{4} \times 24$  hours  
=  $7 \times 24$  hours + 6 hours  
= 168 hours + 6 hours  
= 174 hours  
(e)  $3\frac{1}{2}$  days  
=  $\frac{7}{2} \times 24$  hrs =  $7 \times 12$  hours = 84 hours  
(f) 18 days + 15 hours

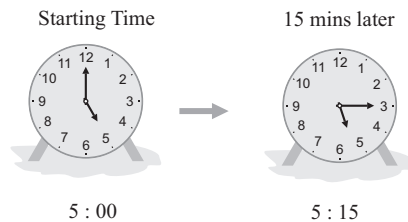
$$\begin{aligned}
 &= 18 \times 24 \text{ hours} + 15 \text{ hours} \\
 &= 432 + 15 \text{ hours} \\
 &= 447 \text{ hours}
 \end{aligned}$$

4. (a)  $3 \text{ hours} = 3 \times 60 \text{ min} = 180 \text{ min}$   
 (b)  $2 \text{ hr } 45 \text{ min} = 2 \times 60 \text{ min} + 45 \text{ min}$   
 $= 120 \text{ min} + 45 \text{ min}$   
 $= 165 \text{ min}$   
 (c)  $6\frac{1}{2} \text{ days} = \frac{13}{2} \times 24 \text{ hours}$   
 $= \frac{13}{2} \times 24 \times 60 \text{ min}$   
 $= 13 \times 12 \times 60 \text{ min}$   
 $= 9360 \text{ min}$   
 (d)  $2\frac{1}{4} \text{ hours}$   
 $= \frac{9}{4} \times 60 \text{ min} = 9 \times 15 \text{ min} = 135 \text{ min}$   
 (e)  $5\frac{1}{2} \text{ hours}$   
 $= \frac{11}{2} \text{ hours} = \frac{11}{2} \times 60 \text{ min}$   
 $= 11 \times 30 \text{ min} = 330 \text{ min}$
5. (a) May June  
 days 22 days + 11 days = 33 days  
 $\therefore$  Sopna stayed at Saharanpur for 33 days  
 (b) 9th January + 20 days = 28th January  
 $\therefore$  John left the office on 28th January  
 (c) July August September  
 days = 20 + 31 + 17 = 68 days  
 $\therefore$  My mother away from home for 68 days.

### Multiple Choice Questions

1. (b)                      2. (a)                      3. (d)                      4. (c)

### Tell Time





15 mins later



5 : 30



2 hours later



7 : 30



3 hours later



10 : 30

## 12. MONEY

### Exercise-12.1

- $\text{₹ } 7 = 7 \times 100 \text{ p} = 700 \text{ p}$
  - $\text{₹ } 10.50 = 10.50 \times 100 \text{ p} = 1050 \text{ p}$
  - $\text{₹ } 2.65 = 2.65 \times 100 \text{ p} = 265 \text{ p}$
  - $\text{₹ } 36.70 = 36.70 \times 100 \text{ p} = 3670 \text{ p}$
- $800 \text{ p} = \text{₹ } 800 \div 100 = \text{₹ } 8$
  - $1024 \text{ p} = 1000 \text{ p} + 24 \text{ p} = \text{₹ } 1000 \div 100 + 24 \text{ p} = \text{₹ } 10 + 24 \text{ p} = \text{₹ } 10.24$
  - $9008 \text{ p} = 9000 \text{ p} + 8 \text{ p} = \text{₹ } 9000 \div 100 + 8 \text{ p} = \text{₹ } 90 + 8 \text{ p} = \text{₹ } 90.08$
  - $3650 \text{ p} = \text{₹ } 3600 \text{ p} + 50 \text{ p} = \text{₹ } 3600 \div 100 + 50 \text{ p} = \text{₹ } 36 + 50 \text{ p} = \text{₹ } 36.50$
- There are 300
  - There are 100
  - There are 10
  - There are 17
  - There are 71
- $$\begin{array}{r} \text{₹ } 56.75 \\ + \text{₹ } 34.10 \\ \hline \text{₹ } 90.85 \end{array}$$
  - $$\begin{array}{r} \text{₹ } 115.45 \\ + \text{₹ } 56.30 \\ \hline \text{₹ } 171.75 \end{array}$$
  - $$\begin{array}{r} \text{₹ } 268.95 \\ - \text{₹ } 457.44 \\ \hline \text{₹ } 211.51 \end{array}$$
  - $$\begin{array}{r} \text{₹ } 778.10 \\ + \text{₹ } 34.89 \\ \hline \text{₹ } 812.99 \end{array}$$
  - $$\begin{array}{r} \text{₹ } 1025.70 \\ + \text{₹ } 560.50 \\ \hline \text{₹ } 1586.20 \end{array}$$
  - $$\begin{array}{r} \text{₹ } 897.20 \\ + \text{₹ } 665.70 \\ \hline \text{₹ } 231.50 \end{array}$$

$$\begin{array}{r} \text{(c)} \quad ₹ 908.45 \\ - ₹ 534.89 \\ \hline ₹ 373.56 \end{array}$$

$$\begin{array}{r} \text{(d)} \quad ₹ 1250.65 \\ - ₹ 970.50 \\ \hline ₹ 280.15 \end{array}$$

6. (a)	$\begin{array}{r} ₹ 6.30 \\ + ₹ 5.25 \\ \hline ₹ 11.55 \\ - 6.35 \\ \hline ₹ 5.20 \end{array}$	(b)	$\begin{array}{r} ₹ 12.20 \\ + ₹ 7.30 \\ \hline ₹ 19.50 \\ - 8.60 \\ \hline ₹ 10.90 \end{array}$	(c)	$\begin{array}{r} ₹ 17.20 \\ + ₹ 12.20 \\ \hline ₹ 29.45 \\ - ₹ 10.30 \\ \hline ₹ 19.15 \end{array}$	(d)	$\begin{array}{r} ₹ 20.35 \\ + ₹ 6.50 \\ \hline ₹ 26.85 \\ - ₹ 12.50 \\ \hline ₹ 14.35 \end{array}$
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### Exercise-12.2

1. (a)	$\begin{array}{r} 55 \\ \times 3 \\ \hline ₹ 165 \end{array}$	(b)	$\begin{array}{r} 170.20 \\ \times 4 \\ \hline ₹ 680.80 \end{array}$	(c)	$\begin{array}{r} 112.30 \\ \times 3 \\ \hline ₹ 336.90 \end{array}$
(d)	$\begin{array}{r} 65 \\ \times 7 \\ \hline ₹ 455 \end{array}$	(e)	$\begin{array}{r} 250.15 \\ \times 7 \\ \hline ₹ 1751.05 \end{array}$	(f)	$\begin{array}{r} 98.10 \\ \times 9 \\ \hline ₹ 882.90 \end{array}$

2. (a) ₹ 452 ÷ 4

$$\begin{array}{r} 4 \overline{) 452} \quad (113 \\ \underline{4} \\ 5 \\ \underline{4} \\ 12 \\ \underline{12} \\ 0 \end{array}$$

∴ ₹ 452 ÷ 4 = ₹ 113

(b) ₹ 650.50 ÷ 5

$$\begin{array}{r} 5 \overline{) 650.50} \quad (130.10 \\ \underline{5} \\ 15 \\ \underline{15} \\ 05 \\ \underline{5} \\ 0 \end{array}$$

∴ ₹ 650.50 ÷ 5 = ₹ 130.10

(c) ₹ 47.20 ÷ 2

$$\begin{array}{r} 2 \overline{) 47.20} \quad (23.60 \\ \underline{4} \\ 07 \\ \underline{6} \\ 12 \\ \underline{12} \\ 0 \end{array}$$

∴ ₹ 47.20 ÷ 2 = ₹ 23.60



3. (a) Cost of 1 box = ₹ 672 ÷ 6

$$\begin{array}{r} 6 \overline{) 672} \quad (112 \\ \underline{6} \phantom{00} \\ 07 \phantom{0} \\ \underline{6} \phantom{00} \\ 12 \phantom{0} \\ \underline{12} \\ \times \end{array}$$

∴ cost of 1 box = ₹ 112

(c) Cost of 1 umbrella = ₹ 512 ÷ 4

$$\begin{array}{r} 4 \overline{) 512} \quad (128 \\ \underline{4} \phantom{00} \\ 11 \phantom{0} \\ \underline{8} \phantom{00} \\ 32 \phantom{0} \\ \underline{32} \\ 0 \end{array}$$

∴ cost of 1 umbrella = ₹ 128

4. (a) Each child will get = ₹ 3060 ÷ 6  
= ₹ 510

$$\begin{array}{r} 6 \overline{) 3060} \quad (510 \\ \underline{30} \phantom{00} \\ 6 \phantom{00} \\ \underline{6} \phantom{00} \\ 0 \end{array}$$

(b) Cost of 12 boxes = ₹ 10.50 × 12  
= ₹ 126.00

$$\begin{array}{r} 10.50 \\ \times 12 \\ \hline 2100 \\ 1050 \times \\ \hline \underline{126.00} \end{array}$$

(c) Cost of 1 shirt = ₹ 3528.16 ÷ 4  
= ₹ 882.04

$$\begin{array}{r} 4 \overline{) 3528.16} \quad (882.04 \\ \underline{32} \phantom{00} \\ 32 \phantom{00} \\ \underline{32} \phantom{00} \\ 8 \phantom{00} \\ \underline{8} \phantom{00} \\ 16 \phantom{00} \\ \underline{16} \phantom{00} \\ 0 \end{array}$$

(d) Saving in 1 year = ₹ 1152.50 × 12  
= ₹ 11550

$$\begin{array}{r} 1152.50 \\ \times 12 \\ \hline 230500 \\ 115250 \times \\ \hline 13830.00 \end{array}$$

(e) Share of each man = ₹ 57750 ÷ 5  
= ₹ 11550

$$\begin{array}{r} 5 \overline{) 57750} \quad (11550 \\ \underline{5} \phantom{00} \\ 7 \phantom{00} \\ \underline{5} \phantom{00} \\ 27 \phantom{00} \\ \underline{25} \phantom{00} \\ 25 \phantom{00} \\ \underline{25} \phantom{00} \\ 0 \end{array}$$

### Exercise-12.3

1. (a)

$$\begin{array}{r} ₹ 2000 \\ ₹ 940 \\ ₹ 125 \\ + ₹ 135 \\ \hline \text{grand total} \quad ₹ 3200 \end{array}$$

(b) Price of 1 doll = ₹ 2000 ÷ 10 = ₹ 200  
Price of 1 deddy = ₹ 940 ÷ 4 = ₹ 235  
Price of 1 pack = ₹ 125 ÷ 5 = ₹ 25  
Price of 1 card = ₹ 138 ÷ 3 = ₹ 46

2. (a)

	Item bought	Quantity	Unit Price	Total Price
1.	rice	5 kg	₹ 24/kg	₹ 120
2.	oil	2 litres	₹ 134/litre	₹ 268
3.	dal	1 kg	₹ 42/kg	₹ 42
			grand total	₹ 430

(b)

	Item	Quantity	Unit Price	Total Price
1.	Pizzas	6	₹ 89/piece	₹ 534
2.	Cold drink	6	₹ 12/piece	₹ 72
3.	Pastries	5	₹ 24/piece	₹ 120
4.	Fries	3	₹ 43/packet	₹ 129
5.	Burgers	4	₹ 28/piece	₹ 112
			grand total	₹ 967



## Worksheet

	Each ticket costs
(a) Geeta bought 5 tickets for ` 600	₹ 125
(b) Neelam bought 8 tickets for ` 880	₹ 110
(c) Gagan bought 6 tickets for ` 780	₹ 130
(d) Amar bought 7 tickets for ` 875	₹ 125

## Buying Things

Vishal took many summer jobs and earned the following amount of money.

Baby sitting for 10 hours at the rate of ` 25 per hours :  
₹ 250

Distributing pamphlets at the rate of ₹ 2 per pamphlet. He distributed 750 pamphlets : ₹ 1500

Worked at an Internet café for 85 hours at the rate of `  
15 per hour : ₹ 1275

Worked in a fast food café for 20 hours at the rate of  
₹ 75 per hour : ₹ 1500



He spent the money on the following things.

Treat for friends at the rate of ₹ 35 per person.

He invited 7 friends : ₹ 245

Bought gifts for his parents and younger sister at the  
rate of ₹ 115 person. ₹ 230

Bought three T-shirts, each for ₹ 345: ₹ 1035

Went on a hiking trip for five days and spent ₹ 1275.  
₹ 1275



Answer the following questions :

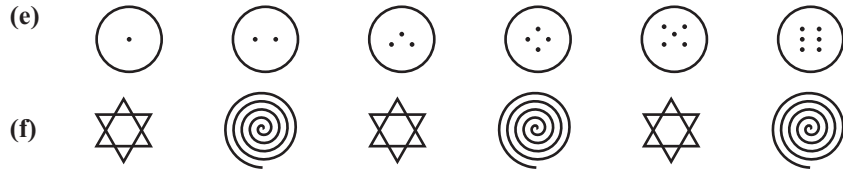
- |  |        |
|--|--------|
| (a) How much money did he earn in all?                   | ₹ 4525 |
| (b) How much money did he spend in all?                  | ₹ 2785 |
| (c) Was he able to save any money? If yes, how much? Yes | ₹ 1740 |



## 13. Number patterns

### Exercise-13.1

- |     |  |  |  |  |  |  |
|-----|--|--|--|--|--|--|
| (a) |  |  |  |  |  |  |
| (b) |  |  |  |  |  |  |
| (c) |  |  |  |  |  |  |
| (d) |  |  |  |  |  |  |

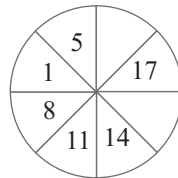
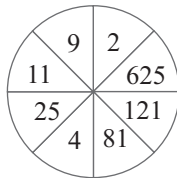


### Exercise-13.2

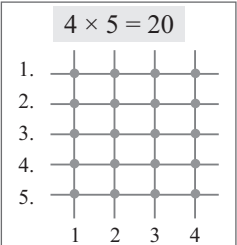
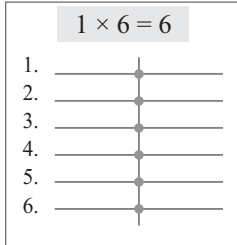
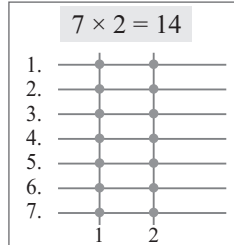
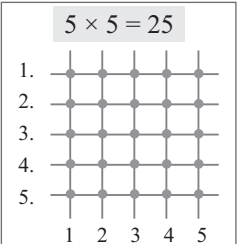
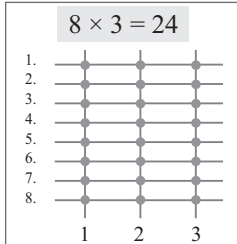
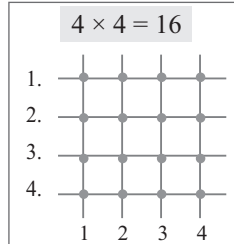
1. (a)  $1+2=3$  (b)  $2+3=5$  (c)  $3+4=7$   
 (d)  $4+5=9$  (e)  $5+6=11$  (f)  $6+7=13$   
 sum of two consecutive number is always a odd number.
2. (a)  $1+2+3=6$  (b)  $3+4+5=12$  (c)  $4+5+6=15$   
 (d)  $5+6+7=18$  (e)  $6+7+8=21$  (f)  $7+8+9=24$   
 (g)  $8+9+10=27$  (h)  $9+10+11=30$   
 sum of three consecutive number is a multiple of three.
3. (a)  $1+2+3+4=10$  (b)  $2+3+4+5=14$  (b)  $3+4+5+6=18$   
 (d)  $4+5+6+7=22$  (c)  $5+6+7+8=26$  (f)  $6+7+8+9=28$   
 (d)  $7+8+9+10=34$  (g)  $8+9+10+11=38$   
 sum of four consecutive numbers is a even number.

### Tricky Task

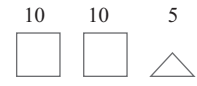
1. (a) 10 25 50 85 140 195 260  
 (b) 2 8 18 32 50 72 98  
 (c) 2 4 7 11 16 22 35
- 2.



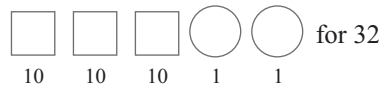
### Exercise-13.3

- 1.
- |  |  |   |
|--|--|---|
| $4 \times 5 = 20$<br> | $1 \times 6 = 6$<br>  | $7 \times 2 = 14$<br> |
| $5 \times 5 = 25$<br> | $8 \times 3 = 24$<br> | $4 \times 4 = 16$<br> |

2.



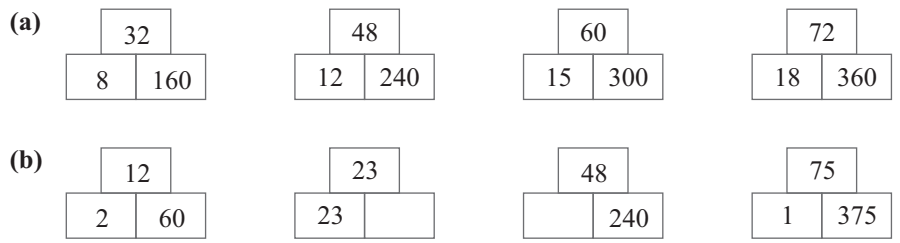
for 25



3.

- (a)  $52 =$
- (b)  $17 =$
- (c)  $45 =$
- (d)  $23 =$
- (e)  $36 =$
- (f)  $19 =$
- (g)  $15 =$
- (h)  $6 =$

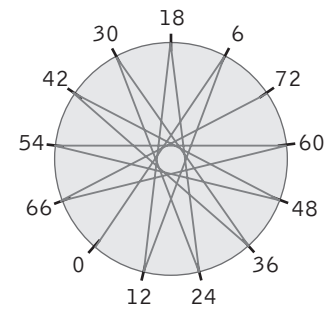
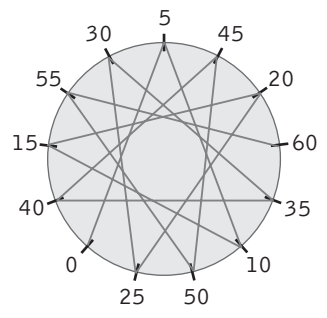
3.



4.

(a) Multiple of 5

(b) Multiple of 6







5.

- $111 \div 3 = 37$
- $222 \div 6 = 37$
- $333 \div 9 = 37$
- $444 \div 12 = 37$
- $555 \div 15 = 37$
- $666 \div 18 = 37$











4. (a)  $6 \times 365 + 7 \times 30 = 2190 + 210 = 2400$  days  
 (b)  $11 \times 365 + 20 \times 30 = 4015 + 600 = 4615$  days  
 (c)  $4 \times 365 + 3 \times 30 = 1095 + 90 = 1185$  days  
 (d)  $10 \times 365 + 17 \times 30 = 3650 + 510 = 4160$  days
5. (a)  $\begin{array}{r} ₹ 20.15 \\ ₹ 15.30 \\ \hline ₹ 35.45 \end{array}$       (b)  $\begin{array}{r} ₹ 25.17 \\ ₹ 21.16 \\ \hline ₹ 46.33 \end{array}$
6. (a) 9:35 am      (b) 5:00 pm  
 (c) 6:45am      (d) 11:50 am
7. (a)  $54000 \div 100 \text{ km} = 54 \text{ km}$   
 (b)  $65000 \text{ m} + 76 \text{ m} = 65 \text{ km} + 767 \text{ m} = 65 \text{ km } 767 \text{ m}$

8. (a) 
- (b) 
- (c) 
- (d) 

**14. GEOMETRY**

**Exercise-14.1**

- (a)  → cone  
 (b)  → cube  
 (c)  → square  
 (d)  → triangle  
 (e)  → circle  
 (f)  → rectangle




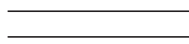








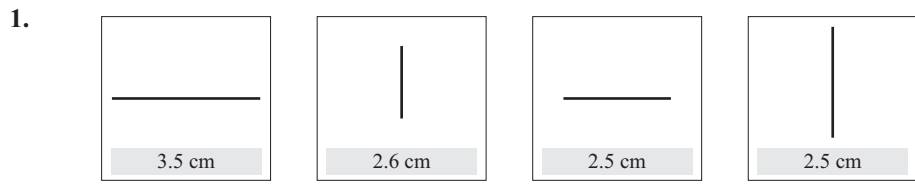
2.	Shape	Number of faces	Number of edges	Number of vertices
	Cube	6	12	8
	Cuboid	6	12	8
	Cone	2	1	1
	Sphere	1	0	0
	Cylinder	3	2	0





3. (a) Cone : Joker cap                      (b) Sphere : ball  
(c) Cylinder : glass                      (d) Cuboid : pencil box  
(e) Square : surface of cube              (f) Rectangle : top of table

**Exercise-14.2**

1. (a) Curved lines  (b) Slant line  (c) Horizontal line 
- (d) Parallel lines  (e) Slant line  (f) Intersecting lines 
- (g) curve lines  (h) Vertical line 
2. (a) Railway tracks: parallel lines  
(b) A tree trunk : vertical  
(c) The base of a blackboard : horizontal  
(d) Ladder leaning against a wall: slant line  
(e) A cross (×) : intersecting

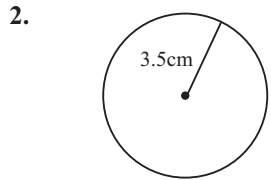
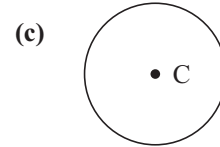
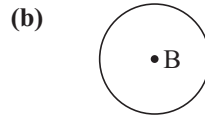
**Exercise-14.3**



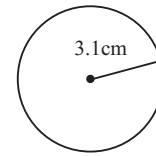
2. (a) 6 cm  (b) 3 cm 
- (c) 8 cm  (d) 12 cm 

3. (a) A ray has **one** endpoints.  
 (b) A line segment has **2** endpoints.  
 (c) A line has **no** endpoints.  
 (d) A **triangle** has three sides.  
 (e) The opposite sides of a rectangle are **equal**.

**Exercise-14.4**

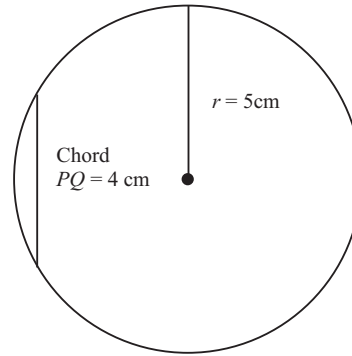
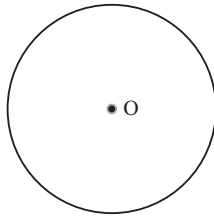


3. Diameter = 6.2 cm  
 $r = \frac{6.2}{2} = 3.1 \text{ cm}$

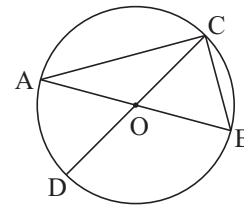


4. radius =  $\frac{6}{2} = 3 \text{ cm}$

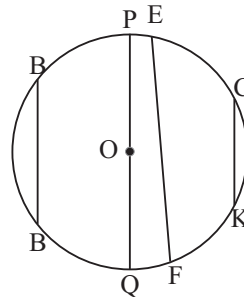
5.  $r = 5 \text{ cm}$



6. (a) AB, CD  
 (b) Chord  
 (c) AC, BC, AB  
 (d) OA, OB, OC  
 (e)  $\Delta ACB, \Delta AOC, \Delta BOC$



7. (f)  $qF = 5 \text{ cm}$   
 (g)  $AB = 3.5 \text{ cm}, CK = 2 \text{ cm}, EF = 5 \text{ cm}$   
 (i) 5.4 cm  
 (j) 2.7 cm



8. (a)  $12\text{ cm} = 6\text{ cm}$       (b)  $18\text{ cm} = 9\text{ cm}$       (c)  $22\text{ cm} = 11\text{ cm}$   
 9. (a)  $5\text{ cm} = 10\text{ cm}$       (b)  $8\text{ cm} = 16\text{ cm}$       (c)  $12\text{ cm} = 24\text{ cm}$   
 10. (a) The **diameter** is the longest chord of the circle.  
 (b) The point in the circle which is at equal distance from all points on the circumference is called **centre**.  
 (c) The **chord** is a line joining any two points on the circle.  
 (d) The **circumference** is the outer boundary of the circle.  
 (e) The radius is **half** of the diameter.


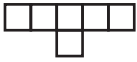
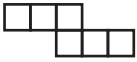
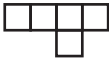
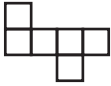
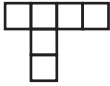
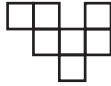
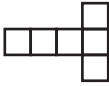
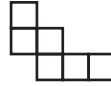
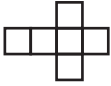
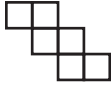
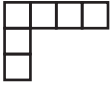
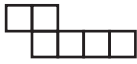
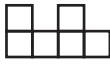


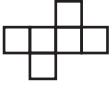

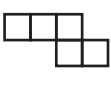
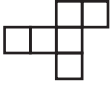
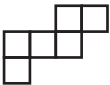
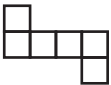

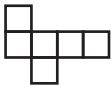
### Exercise-14.5

Do your self

### Exercise-14.6

Do your self

### Exercise-14.7

1. (a)  (b)  (c)  (d)   
 (x)  
 (e)  (f)  (g)  (h)   
 (✓)  
 (i)  (j)  (k)  (l)   
 (✓)  
 (m)  (n)  (o)  (p)   
 (q)  (r)  (s)  (t)   
 (✓)  
 (u)  (v)  (w)  (x) 

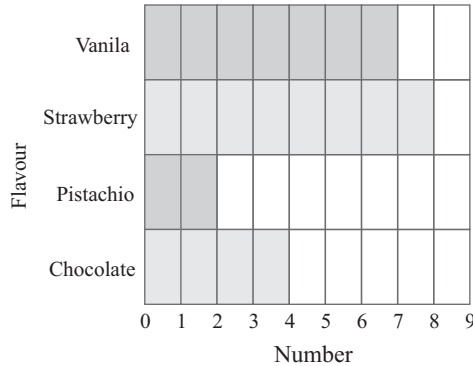
**WORKSHEET**

1. Vishwanath Anand
2. Pawns
3. Bishop
4. Pawns

**15. PICTORIAL INTERPRETATION OF DATA**

**Exercise-15.1**

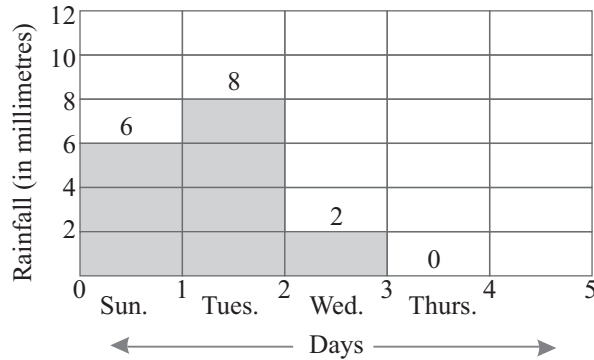
1.



2. (a) Strawberry (b) Pistachio (c) Strawberry (d) 21
3. (a) 3800 (b) 2300 (c)  $900 - 600 = 300$  (d) Apples
4. (a) Blue bird (b) Big Balloons (c)  $5 - 4 = 1$
5. (d)  $7 + 5 = 12$  (e)  $9 + 4 = 13$

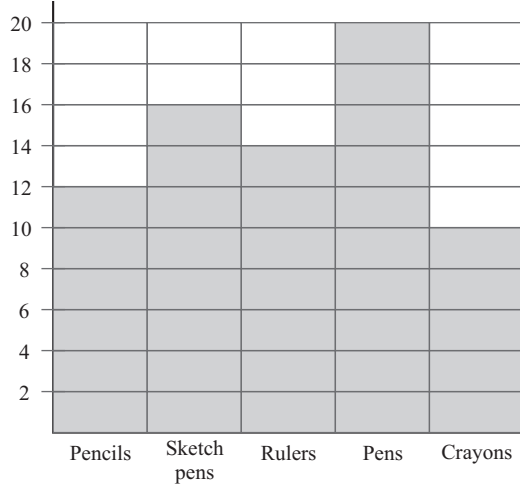
**Exercise-15.2**

1. (a) 4 (b) 5
2. (a) 1.15 (b) 2.8 (c) 11 (d) 4.16 (e) 5.7 (f) 6.9
3. (a) Ranjit 1 (b) 25 (c) Milan, 6
4. (d) Renu and Alisha, 4 (e) Milan, 6
5. Do your self.
6. (a) 30 (b) 1.30 (c) 2.62 (d) 3.50 (e) 4.55 (f) 5.40 (g) 6.45 (h) 7.47
7. (a) 2 (b) 329 Apples



8. (b) Tuesday (c) Thursday (d) 16 Inches
9. (a) 240 (b) Friday, 60 guns (c) Saturday (d) 50

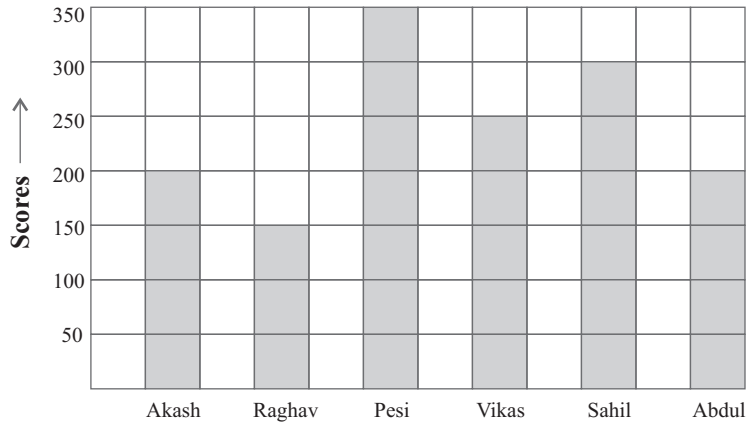
7.



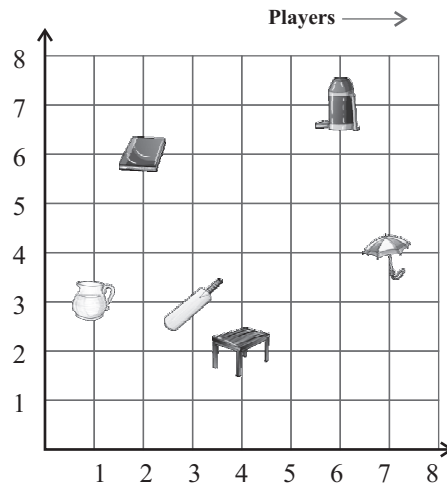
Each square represents 2 objects

**WORKSHEET**





































Scale : 1 box = \_\_\_\_\_ points



**POSITION**

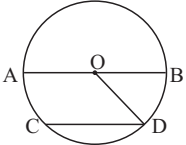


The set of numbers given on the left are position of the objects on the graph. Can you identify which object is placed at which position?

(1, 3)						
(7, 4)						
(2, 6)						
(3, 3)						
(6, 7)						
(4, 2)						

#### FORMATIVE ASSESSMENT-4

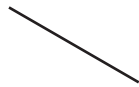
- (a)  $111 \div 3 = 37$   
 (b)  $222 \div 6 = 37$   
 (c)  $333 \div 9 = 37$   
 (d)  $444 \div 12 = 37$   
 (e)  $555 \div 15 = 37$   
 (f)  $666 \div 18 = 37$

- 

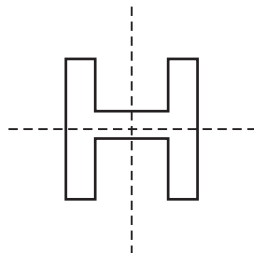
The centre = O  
 A radius = OA, OB, OD  
 A diameter = AB  
 A chord = CD

- (a) 0, 2, 4, 6, 8, 10, 12  
 (b) 3, 6, 9, 12, 15, 18, 21, 24  
 (c) 100, 92, 84, 72, 64, 56  
 (d) 10, 15, 20, 25, 25, 30, 35

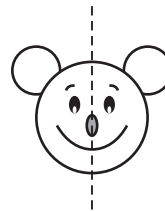
- (a) slant line                      (b) Wave line                      (c) Intersecting line



- (a)



- (b)



6. (a) 4  
 (b) 5  
 (c) 1.15      2.8      3. 11      4.16      5. 7      6. 9

**SUMMATIVE ASSESSMENT-2**

1. Wooden stick needed =  $2(40 + 25) = 2 \times 65 = 130$  cm  
 2. (a) 6:30 pm = 1830 hours      (c) 11:38 am = 1138 hours  
 (c) 12:00 midnight      (d) 2215 hours  
 3. (a) ₹ 5.25 = Five Rupees and twenty five paise  
 (b) ₹ 95.00 = Ninety five rupees  
 (c) ₹ 0.65 = Sixty five paise  
 (d) ₹ 0.03 = Three paise

4. (a) 

32	
8	160

      (b) 

48	
12	240

      (c) 

60	
15	300

5. (a) The length of the circle is called its **circumference**.  
 (b) Radius of a circle =  $\frac{1}{2} \times$  diameter of a circle  
 (c) Diameter is the **longest** chord of a circle.

6. g, kg  
 7. ml, l

8. Fence =  $2(23 + 36) = 2 \times 59 = 118$  m  
 Cost = ₹  $118 \times 125 = ₹ 14750$

9. 

	hr	min
	11	55
	- 10	10
	-----	-----
	1	45

∴ she done the shopping for 1 hr 45 min

10. (a) 

₹ 155
× 3
-----
₹ 165

      (b) 

₹ 170.20
× 4
-----
₹ 680.80

      (c) 

₹ 112.30
× 3
-----
₹ 336.90

11. (a) 826 = even      (b) 287 = odd      (c) 481 odd

