

Exercise-11.7

1. a.

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

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

c.

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

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

d.

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

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

b.

$$\begin{array}{r} \text{km} \quad \text{m} \\ 59 \quad 869 \\ 12 \overline{) 718 \, 428} \\ \underline{60} \\ 118 \\ \underline{108} \\ 104 \\ \underline{96} \\ 82 \\ \underline{72} \\ 108 \\ \underline{108} \\ 0 \end{array}$$

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

e.

$$\begin{array}{r} \text{l} \quad \text{ml} \\ 3 \quad 123 \\ 3 \overline{) 9 \, 369} \\ \underline{9} \\ 3 \\ \underline{3} \\ 6 \\ \underline{6} \\ 0 \, 9 \\ \underline{0 \, 9} \\ 0 \end{array}$$

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

f.

$$\begin{array}{r} \text{km} \quad \text{m} \\ 82 \quad 9 \\ 3 \overline{) 2487} \\ \underline{24} \\ 8 \\ \underline{6} \\ 27 \\ \underline{27} \\ 0 \end{array}$$

$$\therefore 248 \text{ km } 7 \text{ m} \div 3 = 82 \text{ km } 9 \text{ m}$$

g.

$$\begin{array}{r} \text{kg} \quad \text{g} \\ 0 \quad 365 \\ 5 \overline{) 1825} \\ \underline{15} \\ 32 \\ \underline{30} \\ 25 \\ \underline{25} \\ 0 \end{array}$$

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

h.

	kg	g
	1	243

$$\begin{array}{r}
 15 \overline{) 18645} \\
 \underline{15} \\
 36 \\
 \underline{30} \\
 64 \\
 \underline{60} \\
 45 \\
 \underline{45} \\
 0
 \end{array}$$

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

i.

	kg	g
	0	500

$$\begin{array}{r}
 3 \overline{) 1500} \\
 \underline{15} \\
 000
 \end{array}$$

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

Exercise-11.8

1. Total distance

438 km 500 m
$\times 2$
876 km 000 m

2. Length of each piece = 8 m 64 cm $\div 4$
= 2 m 16 cm

m	cm
2	16

$$\begin{array}{r}
 4 \overline{) 864} \\
 \underline{8} \\
 06 \\
 \underline{4} \\
 24 \\
 \underline{24} \\
 0
 \end{array}$$

3. Total length of ribbon = 2m 60 cm

	$\times 3$
7 m 80 cm	

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

km	m
1	100

$$\begin{array}{r}
 4 \overline{) 4400} \\
 \underline{4} \\
 04 \\
 \underline{4} \\
 0
 \end{array}$$

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

	$\times 12$
54 kg 000 g	

$$= 54 \text{ kg } 000 \text{ g}$$

6. Flour used in (7 days) week =
$$\begin{array}{r} 3 \text{ kg } 750 \text{ g} \\ \times 7 \\ \hline 26 \text{ kg } 250 \text{ g} \end{array}$$

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

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

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

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

9. Water in 1 glass = 0 l 350 ml
Water in 8 glasses =
$$\begin{array}{r} 0 \text{ l } 350 \text{ ml} \\ \times 8 \\ \hline 2 \text{ l } 800 \text{ ml} \end{array}$$

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

MCQs

1. c. 2. b. 3. b. 4. c.

Time To Fun

1. 16 m 2. 12.5 m 3. 7.5 m 4. 2.5 m 5. 6 m 6. 5 m

12

Geometry

Exercise 12.1

1. a. O b. C c. C d. O

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	0	0

3. a. A sphere has **no** vertices.
b. A triangle has **3** sides.
c. There are **2** diagonals in a rectangle.

Exercise 12.2

- $\overrightarrow{PQ}$ is a ray.
 - $\overleftrightarrow{AB}$ is a line.
 - $\overline{AB}$ is a line segment.
- 3.3 cm
 - 8.9 cm
- $A \xrightarrow{\quad 7.8 \text{ cm} \quad} B$
 - $A \xrightarrow{\quad 5.2 \text{ cm} \quad} B$
 - $A \xrightarrow{\quad 7.8 \text{ cm} \quad} B$
 - $A \xrightarrow{\quad 4.7 \text{ cm} \quad} B$
- We can find 6 rays. These are $\overrightarrow{RQ}$, $\overrightarrow{SQ}$, $\overrightarrow{TQ}$, $\overrightarrow{RP}$, $\overrightarrow{SP}$ and $\overrightarrow{TP}$.
- There are 4 line segments. These are AB , BC , CD and DA .
 - There are 3 line segment. These are PQ , QR and RP .
 - There are 6 line segments. These are LM , MN , NO , OP , PQ , QR and RL .

Exercise 12.3

- $\angle ABC$
 - $\angle ONM$
 - $\angle XYZ$
- Arms are BC and BA . Vertex is B .
 - Arms are MN and ML . Vertex is M .
 - Arms are YX and YZ . Vertex is Y .
- Exterior points are P and Z .
 - Interior points are X and Y .

Exercise 12.4

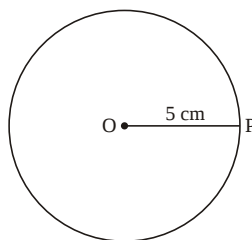
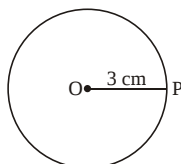
- 7
 - 3
 - 7
 - 3
 - 3
 - 7
 - 7
 - 3
- False
 - True
 - True
 - False
 - True

Exercise 12.5

- Sides are AB , BC and CA .
 - Vertices are A , B and C .
 - Angles are $\angle ABC$, $\angle BCA$ and $\angle CAB$.
- Equilateral triangle
 - Scalene triangle
 - Isosceles triangle.
- Do Yourself.
- $AB = 3\text{cm}$, $AC = 5\text{cm}$, $BC = 6\text{cm}$ Scalene triangle.
 - $AB = 5\text{cm}$, $AC = 5\text{cm}$, $BC = 5\text{cm}$ Equilateral triangle
 - $AB = 3\text{cm}$, $BC = 3\text{cm}$, $AC = 5\text{cm}$ Isosceles triangle

Exercise 12.6

- Do yourself.
- Centre of the circle is O .
 - Radii of the circle are OP and OQ .
 - Chords of the circle LM and PQ .
 - Diameter of the circle is PQ .
- -



Exercise 12.7

1. a. Radius = 28 cm
Diameter = $2 \times \text{radius}$
 $= 2 \times 28 = 56 \text{ cm.}$
c. Radius = 19 cm
Diameter = $2 \times \text{radius}$
 $= 2 \times 19 = 38 \text{ cm.}$
2. a. Diameter = 40 cm
Radius = $\frac{\text{diameter}}{2}$
 $= \frac{40}{2} = 20 \text{ cm}$
c. diameter = 80 cm.
Radius = $\frac{\text{diameter}}{2} = \frac{80}{2} = 40 \text{ cm.}$
3. a. Girl
d. Rabbit
- b. T-shirt
e. Rocket
- c. House

MCQs

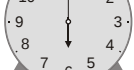
1. b. 2. c. 3. a. 4. c.

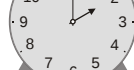
13

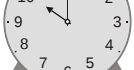
Time

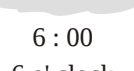
Exercise-13.1

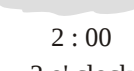
1.
 - a. The **short** hand of the clock tells us the hours.
 - b. The **long** hand of the clock tells us the minutes.
 - c. An hour has **60** minutes.
 - d. A minute has **60** seconds.
 - e. Between two adjacent numbers on the clock face there are 5 minutes.

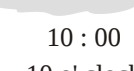
2. a.  6 : 00
6 o' clock

b.  2 : 00
2 o' clock

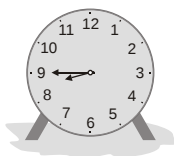
c.  10 : 00
10 o' clock

d.  5 : 00
5 o' clock

e.  3 : 00
3 o' clock

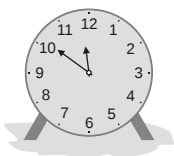
f.  9 : 00
9 o' clock

3. a.



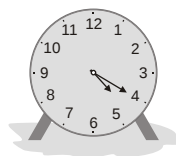
Quarter to nine
8 : 45

b.



Ten minutes to twelve
11 : 50

c.



Twenty minutes past four
4 : 20

Exercise-13.2

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-13.3

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-13.4

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-13.5

1. (a) 3 hours = $3 \times 60 = 180$ minutes
- (b) 12 hours = $12 \times 60 = 720$ minutes
- (c) 5 and a half hours $5 \frac{1}{2}$ hours = $\frac{11}{2}$ hours = $\frac{11}{2} \times 60 \times 60$ minutes = 330 minutes
- (d) 13 hours and a quarter of an hour $13 \frac{1}{4}$ 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
= $(100 \div 60)$ hours + 56 minutes = 17 hours 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 = 3×60 sec + 15 sec
= 180 sec + 15sec
= 195 sec
- (b) 2 minute = 2×60 sec = 120 seconds
- (c) A minute and a half $1\frac{3}{2}$ minutes = $\frac{3}{2} \times 60$ seconds = $3 \times 30 = 90$ seconds
- (d) 4 min and a quarter of a minute
 $4\frac{1}{4}$ minutes = $\frac{17}{4}$ minutes
= $\frac{17}{4} \times 60$ seconds
= 17×15 seconds = 255 seconds
- (e) 5 min 20sec = 5×60 sec + 20sec
= 300 sec + 20sec = 320 sec
- (f) 2 hours = 2×60 minutes
= $2 \times 60 \times 60$ seconds
= 7200 seconds
4. (a) 3 minutes = 3×60 seconds = **180** seconds
- (b) 7 minutes = 7×60 seconds = **420** seconds
- (c) 9 minutes = 9×60 seconds = **540** seconds
- (d) 15 minutes = 15×60 sec = **900** seconds
- (e) 31 minutes = 31×60 seconds = **1860** seconds
- (f) 46 minutes = 46×60 seconds = **2760** seconds
- (g) 22 minutes = 22×60 seconds = **1320** seconds
- (h) 48 minutes = 48×60 seconds = **2880** seconds

Exercise-13.6

1. (a) 11.00 am to 3:00 pm = 4 hours
 (b) 12:45 am to 8:00 am = 7 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 : 10am
 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-13.7

(a)

hr	min
2	35
+ 1	25
3	60
–	60
4	00

4 hr

(b)

hr	min
4	18
+ 7	56
11	74
–	60
12	14

12 hrs 14 min

(c)

hr	min
9	38
+ 6	28
15	66
–	60
16	6

16 hrs 6 min

(d)

hr	min
7	32
+ 6	24
13	56

13 hrs 56 min

(e)

hr	min
10	55
+ 6	15
16	70
–	60
17	10

17 hrs 10 min

(f)

hr	min
8	34
+ 12	34
20	68
–	60
21	8

21 hrs 8 min

Exercise-13.8

(a)

hr	min
5	(60)
5	6
– 1	34
3	32

3 hrs 32 min

(b)

hr	min
5	(60)
5	33
– 2	54
2	39

2 hrs 9 min

(c)

hr	min
7	(60)
8	22
+ 4	45
3	37

3 hrs 37 min

$$\begin{array}{r}
 \text{(d)} \quad \begin{array}{cc} \text{hr} & \text{min} \\ & \textcircled{60} \\ 15 & \\ \underline{16} & 15 \\ + 8 & 55 \\ \hline 7 & 20 \end{array}
 \end{array}$$

7 hr 20 min

$$\begin{array}{r}
 \text{(e)} \quad \begin{array}{cc} \text{hr} & \text{min} \\ & \textcircled{60} \\ 3 & \\ \underline{4} & 18 \\ - 2 & 32 \\ \hline 1 & 46 \end{array}
 \end{array}$$

1 hr 46 min

$$\begin{array}{r}
 \text{(f)} \quad \begin{array}{cc} \text{hr} & \text{min} \\ & \textcircled{60} \\ 8 & \\ \underline{9} & 13 \\ - 5 & 25 \\ \hline 3 & 48 \end{array}
 \end{array}$$

3 hr 48 min

Exercise-13.9

1. returned at
gone at

$$\begin{array}{r}
 \begin{array}{cc} \text{hr} & \text{min} \\ 11 & 55 \\ - 10 & 10 \\ \hline 1 & 45 \end{array}
 \end{array}$$

She shopped for 1 hr 45 min

- 3.

$$\begin{array}{r}
 \begin{array}{cc} \text{hr} & \text{min} \\ 52 & 0 \\ + 3 & 45 \\ \hline 9 & 65 \\ - & 60 \\ \hline 9 & 05 \end{array}
 \end{array}$$

Train arrived at 9 : 05 pm

- 5.

$$\begin{array}{r}
 \begin{array}{cc} \text{hr} & \text{min} \\ & \textcircled{60} \\ 7 & \\ \underline{8} & 15 \\ - 6 & 30 \\ \hline 1 & 35 \end{array}
 \end{array}$$

∴ Train taken 1 hr 35 min more

- 7.

$$\begin{array}{r}
 \begin{array}{cc} \text{hr} & \text{min} \\ 85 & 0 \\ + 4 & 20 \\ \hline 12 & 70 \\ - & 60 \\ \hline 13 & 10 \end{array}
 \end{array}$$

∴ Time after 8 : 50 pm is 1310 hrs
or 1 : 10 am

- 2.

Total time
first half

$$\begin{array}{r}
 \begin{array}{cc} \text{hr} & \text{min} \\ & \textcircled{60} \\ 12 & 30 \\ - 55 \\ \hline 1 & 35 \end{array}
 \end{array}$$

Ind half = 1 hr 35 min

- 4.

$$\begin{array}{r}
 \begin{array}{cc} \text{hr} & \text{min} \\ \text{show ended at} & 34 \quad 0 \\ \text{show started at} & - 2 \quad 00 \\ \hline & 1 \quad 40 \end{array}
 \end{array}$$

duration of show = 1 hr 40 min

- 6.

$$\begin{array}{r}
 \begin{array}{cc} \text{hr} & \text{min} \\ \text{Dance class} & 14 \quad 0 \\ \text{Music class} & \quad 50 \\ \text{Yoga class} & + 1 \quad 15 \\ \hline & 2 \quad 105 \\ - & 60 \\ \hline & 3 \quad 45 \end{array}
 \end{array}$$

∴ Total time is 3 hr 45 minutes

- 8.

$$\begin{array}{r}
 \begin{array}{cc} \text{hr} & \text{min} \\ & \textcircled{60} \\ 9 & \\ \underline{9} & 00 \\ - 3 & 30 \\ \hline 5 & 30 \end{array}
 \end{array}$$

∴ Time 3hr 30 min before 9 : 00 pm
is 5 : 30 pm

Exercise-13.10

1. (a) There 52 weeks in a years.

$$\begin{array}{r}
 \text{(b)} \quad \begin{array}{ccccc} \text{May} & & \text{June} & & \text{July} \\ 16 & + & 30 & + & 10 & = & 56 \text{ days} \end{array}
 \end{array}$$

- (c) There are 5 Sundays in January

- (d) December January
Days 6 + 2 = 8 days
- (e) January
2. (a) 2 Months = 2×30 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 + 3×7 days + 20 days
 $= 30$ days + 21 days + 20 days
 $= 71$ days
- (e) 2 weeks + 3 weeks = 5 weeks
 5×7 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 = 5×6 = 30 hours
- (b) half a days = 12 hours
- (c) $2\frac{1}{2}$ days = $\frac{5}{2} \times 24$ hours = 5×12 = 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 = 7×12 hours = 84 hours
- (f) 18 days + 15 hours
 $= 18 \times 24$ hours + 15 hours
 $= 432 + 15$ hours
 $= 447$ hours
4. (a) 3 hours = 3×60 min = 180 min
- (b) 2 hr 45 min = 2×60 min + 45 min
 $= 120$ min + 45 min
 $= 165$ min
- (c) 6 and half a day days = $\frac{13}{2} \times 24$ hours
 $= \frac{13}{2} \times 24 \times 60$ min

$$= 13 \times 12 \times 60 \text{ min}$$

$$= 9360 \text{ min}$$

$$(d) \text{ 2 hours and quarter of an hour} = \frac{9}{4} \times 60 \text{ min} = 9 \times 15 \text{ min} = 135 \text{ min}$$

5. (a)

	May	June
Total days	22 days	+ 11 days
= 33 days		

 $\therefore$ Sopna stayed at Saharanpur for 33 days
- (b) 9th January + 20 days = 28 January
 $\therefore$ John left the office on 28th January
- (c)

	July	August	September
Total days	= 20	+ 31	+ 17
= 68 days			

 $\therefore$ My mother away from home for 68 days.

MCQs

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

Time To Fun

9 May

4 hours 40 min

7 June

2 hours 40 min

5 July

4 hours 10 min

14

Money

Exercise 14.1

1. (a) ` 43.75 = Forty-three rupees seventy five paise.
 (b) ` 27.50 = Twenty-seven rupee fifty paise.
 (c) 75 p = Seventy-five paise.
 (d) ` 315.25 = Three hundred fifteen rupees twenty-five paise.
 (e) ` 268.50 = Two hundred sixty-eight rupees fifty paise.
 (f) ` 100.25 = Hundred rupees twenty-five paise.
2. (a) 71.05 (b) 320.75 (c) 0.25 or 25 p (d) 530.65

Exercise 14.2

1. (a) ` 18.00
 $\frac{1}{100} = 100 \text{ p}$
 $\therefore 18.00 = 18.00 \times 100 \text{ p}$
 $= 1800 \text{ p}$
- (b) ` 16.50
 $\frac{1}{100} = 100 \text{ p}$
 $\therefore 16.50 = 16.50 \times 100 \text{ p}$
 $= 1650.00 \text{ p}$
 $= 1650 \text{ p}$
- (c) ` 68.25
 $\frac{1}{100} = 100 \text{ p}$
 $\therefore 68.25 \times 100 \text{ p} = 68.25 \times 100 \text{ p}$
 $= 6825.00 \text{ p} = 6825 \text{ p}$
- (d) ` 123.00
 $\frac{1}{100} = 100 \text{ p}$
 $\therefore 123.00 \times 100 \text{ p} = 12300.00 \text{ p}$
 $= 12300 \text{ p}$
- (e) ` 256.25
 $\frac{1}{100} = 100 \text{ p}$
 $\therefore 256.25 = 256.25 \times 100 \text{ p}$
 $= 25625.00 \text{ p}$
 $= 25625 \text{ p}$
- (f) ` 315.50
 $\frac{1}{100} = 100 \text{ p}$
 $\therefore 315.50 = 315.50 \times 100 \text{ p}$
 $= 31550.00 \text{ p}$
 $= 31550 \text{ p}$

$$\begin{aligned}
 \text{(g)} \quad & \text{₹} 453.08 \\
 & \text{₹} 1 = 100 \text{ p} \\
 & \text{₹} 453.08 = 453.08 \times 100 \text{ p} \\
 & = 45308.00 \text{ p} \\
 & = 45308 \text{ p}
 \end{aligned}$$

$$\begin{aligned}
 \text{(h)} \quad & \text{₹} 811.05 \\
 & \text{₹} 1 = 100 \text{ p} \\
 & \text{₹} 811.05 = 811.05 \times 100 \text{ p} \\
 & = 81105.00 \text{ p} \\
 & = 81105 \text{ p}
 \end{aligned}$$

$$\begin{aligned}
 2. \quad \text{(a)} \quad & 825 \text{ p} \\
 & 1 \text{ p} = \frac{1}{100} \\
 & 825 \text{ p} = \frac{825}{100} = \text{₹} 8.25
 \end{aligned}$$

$$\begin{aligned}
 \text{(b)} \quad & 2500 \text{ p} \\
 & 1 \text{ p} = \frac{1}{100} \\
 & 2500 \text{ p} = \frac{2500}{100} = \text{₹} 25
 \end{aligned}$$

$$\begin{aligned}
 \text{(c)} \quad & 3950 \text{ p} \\
 & 1 \text{ p} = \frac{1}{100} \\
 & 3950 \text{ p} = \frac{3950}{100} = \text{₹} 39.50
 \end{aligned}$$

$$\begin{aligned}
 \text{(d)} \quad & 10250 \text{ p} \\
 & 1 \text{ p} = \frac{1}{100} \\
 & 10250 \text{ p} = \frac{10250}{100} = \text{₹} 102.50
 \end{aligned}$$

$$\begin{aligned}
 \text{(e)} \quad & 81 \text{ rupees } 50 \text{ paise} \\
 & 1 \text{ p} = \frac{1}{100} \\
 & 81 \text{ rupees } 50 \text{ paise} \\
 & = 81 \text{ rupees} + 50 \text{ paise} \\
 & = \text{₹} 81 + \frac{50}{100} \\
 & = \text{₹} 81 + \text{₹} 0.50 = \text{₹} 81.50
 \end{aligned}$$

$$\begin{aligned}
 \text{(f)} \quad & 95 \text{ rupees } 55 \text{ paise} \\
 & 1 \text{ p} = \frac{1}{100} \\
 & 95 \text{ rupees } 55 \text{ paise} \\
 & = 95 \text{ rupees} + 55 \text{ paise} \\
 & = \text{₹} 95 + \frac{55}{100} \\
 & = \text{₹} 95 + \text{₹} 0.55 = \text{₹} 95.55
 \end{aligned}$$

$$\begin{aligned}
 \text{(g)} \quad & 7645 \text{ p} \\
 & 1 \text{ p} = \frac{1}{100} \\
 & 7645 \text{ p} = \frac{7645}{100} = \text{₹} 76.45
 \end{aligned}$$

$$\begin{aligned}
 \text{(h)} \quad & 800 \text{ p} \\
 & 1 \text{ p} = \frac{1}{100} \\
 & 8000 \text{ p} = \frac{8000}{100} = \text{₹} 80
 \end{aligned}$$

Exercise 14.3

$$\begin{array}{llll}
 1. \quad \text{(a)} & \begin{array}{r} \text{₹} \quad \text{p} \\ 65 \quad . \quad 50 \\ + 46 \quad . \quad 75 \\ \hline 112 \quad . \quad 25 \end{array} & \text{(b)} & \begin{array}{r} \text{₹} \quad \text{p} \\ 49.7 \quad 5 \\ + 31.2 \quad 5 \\ \hline 81.0 \quad 0 \end{array} & \text{(c)} & \begin{array}{r} \text{₹} \quad \text{p} \\ 78.7 \quad 5 \\ + 60.5 \quad 0 \\ \hline 139 \quad . \quad 25 \end{array} & \text{(d)} & \begin{array}{r} \text{₹} \quad \text{p} \\ 84 \quad . \quad 50 \\ + 58 \quad . \quad 75 \\ \hline 143 \quad . \quad 25 \end{array}
 \end{array}$$

$$\begin{array}{lll}
 2. \quad \text{(a)} & \begin{array}{r} \text{₹} \quad 24.30 \\ + \text{₹} \quad 37.50 \\ \hline \text{₹} \quad 61.80 \end{array} & \text{(b)} & \begin{array}{r} \text{₹} \quad 28.25 \\ + \text{₹} \quad 67.50 \\ \hline \text{₹} \quad 95.75 \end{array} & \text{(c)} & \begin{array}{r} \text{₹} \quad 65.50 \\ + \text{₹} \quad 87.50 \\ \hline \text{₹} \quad 153.00 \end{array}
 \end{array}$$

$$\begin{array}{lll}
 \text{(d)} & \begin{array}{r} \text{₹} \quad 501.30 \\ + \text{₹} \quad 97.50 \\ \hline \text{₹} \quad 598.80 \end{array} & \text{(e)} & \begin{array}{r} \text{₹} \quad 253.00 \\ + \text{₹} \quad 93.50 \\ \hline \text{₹} \quad 346.50 \end{array} & \text{(f)} & \begin{array}{r} \text{₹} \quad 107.30 \\ + \text{₹} \quad 197.50 \\ \hline \text{₹} \quad 304.80 \end{array}
 \end{array}$$

$$\begin{array}{llll}
 3. \quad \text{(a)} & \begin{array}{r} \text{₹} \quad \text{p} \\ 76 \quad . \quad 70 \\ - 35 \quad . \quad 00 \\ \hline 41 \quad . \quad 70 \end{array} & \text{(b)} & \begin{array}{r} \text{₹} \quad \text{p} \\ 89.7 \quad 5 \\ - 63.2 \quad 5 \\ \hline 26.5 \quad 0 \end{array} & \text{(c)} & \begin{array}{r} \text{₹} \quad \text{p} \\ 80.0 \quad 0 \\ - 69.2 \quad 5 \\ \hline 10.7 \quad 5 \end{array} & \text{(d)} & \begin{array}{r} \text{₹} \quad \text{p} \\ 65.0 \quad 0 \\ - 27.7 \quad 5 \\ \hline 37.2 \quad 5 \end{array}
 \end{array}$$

$$\begin{array}{r} \text{9 9} \\ 2 \cancel{10} \cancel{10} 10 \\ \text{` } \cancel{300.00} \\ - \text{` } 16.75 \\ \hline \text{` } 13.25 \end{array}$$

$$\begin{array}{r} \text{` } 62.50 \\ - \text{` } 48.50 \\ \hline \text{` } 14.00 \end{array}$$

$$\begin{array}{r} \text{9 9} \\ 4 \cancel{10} \cancel{10} 10 \\ \text{` } \cancel{150.00} \\ - \text{` } 130.25 \\ \hline \text{` } 19.75 \end{array}$$

$$\begin{array}{r} \text{9} \\ 211 \cancel{10} 12 \\ \text{` } \cancel{320.25} \\ - \text{` } 182.55 \\ \hline \text{` } 137.70 \end{array}$$

$$\begin{array}{r} \text{9 9 9} \\ 10 \cancel{10} \cancel{10} 10 \\ \text{` } \cancel{1000.00} \\ - \text{` } 780.90 \\ \hline \text{` } 219.10 \end{array}$$

$$\begin{array}{r} \text{9 9} \\ 8 \cancel{10} \cancel{10} 13 \\ \text{` } \cancel{800.30} \\ - \text{` } 708.50 \\ \hline \text{` } 191.80 \end{array}$$

$$\begin{array}{r} \text{14 9} \\ 1 \cancel{10} \cancel{10} 10 \\ \text{` } \cancel{130.00} \\ - \text{` } 67.75 \\ \hline \text{` } 82.25 \end{array}$$

So, ` 82.25 should be added.

$$\begin{array}{r} \text{6. Cost of chocolate cake} = \text{` } 630.50 \\ \text{Cost of toffees} = + \text{` } 58.75 \\ \hline \text{` } 689.25 \end{array}$$

So, she spent ` 689.25 in all.

$$\begin{array}{r} \text{7. The money Shikha had} = \text{` } 400.00 \\ \text{Cost of the book} = \text{` } 125.00 \\ \text{Cost of the ice-cream} = + \text{` } 35.50 \\ \hline \text{The money spent on both items} = \text{` } 160.50 \end{array}$$

$$\begin{array}{r} \text{9 9} \\ 3 \cancel{10} \cancel{10} 10 \\ \text{` } \cancel{400.00} \\ - \text{` } 160.50 \\ \hline \text{` } 239.50 \end{array}$$

So, ` 239.50 is left with her.

$$\begin{array}{r} \text{8. Cost of the mobile phone} = \text{` } 9500.00 \\ \text{The money as tax} = + \text{` } 218.50 \\ \hline \text{The money he spent} = \text{` } 9718.50 \end{array}$$

So, he spent ` 9718.50 in all to buy the mobile.

Exercise 14.4

$$\begin{array}{r} \text{1. } \therefore \text{ Cost of 1 calculator} = \text{` } 415.50 \\ \therefore \text{ Cost of 4 calculators} = \text{` } 415.50 \\ \times 4 \\ \hline \text{` } 1662.00 \end{array}$$

So, the cost of 4 calculators is ` 1662.

$$\text{2. Income per month} = \text{` } 11,175.50$$

One year = 12 months

$$\text{The money earned in one year} = \text{` } 11,175.50 \times 12 = \text{` } 1,34,106$$

So, he will earn ` 1,34,106 in one year.

$$\begin{array}{r} 11175.50 \\ \times 12 \\ \hline 2235100 \\ 1117550 \times \\ \hline 134106.00 \end{array}$$

3. $\therefore$ Cost of 4 packets = ₹ 960.40
 $\therefore$ Cost of 1 packet = ₹ 960.40 ÷ 4
= ₹ 240.10

So, the cost of each packet is ₹ 240.10.

$$\begin{array}{r} 240.10 \\ 4 \overline{) 960.40} \\ \underline{- 8} \\ 16 \\ \underline{- 16} \\ 4 \\ \underline{- 4} \\ 0 \end{array}$$

4. $\therefore$ Cost of 6 shirts = ₹ 1260.60
 $\therefore$ Cost of 1 shirt = ₹ 1260.60 ÷ 6
= ₹ 210.10

So, the cost of 1 shirt is ₹ 210.10.

$$\begin{array}{r} 210.10 \\ 6 \overline{) 1260.60} \\ \underline{- 12} \\ 6 \\ \underline{- 6} \\ 06 \\ \underline{- 6} \\ 0 \end{array}$$

5. $\therefore$ Cost of 1 ball = ₹ 26.45
 $\therefore$ Cost of 15 balls = ₹ 26.45 × 15
= ₹ 396.75

So, the cost of 15 balls is ₹ 396.75.

$$\begin{array}{r} 26.45 \\ \times 15 \\ \hline 13225 \\ 2645 \times \\ \hline 396.75 \end{array}$$

Exercise 14.5

1.	Items	Quantity	Rate	Amount (₹)
	Rice	7 kg	₹ 63.00	₹ 441.00
	Oil	4 l	₹ 91.75	₹ 367.00
	Eggs	10	₹ 3.45	₹ 34.50
	Wheat	9 kg	₹ 9.25	₹ 83.25
Grand Total				₹ 925.75

2.	Items	Quantity	Rate	Amount (₹)
	Pizzas	16	₹ 95	₹ 1520
	Cold drinks	7	₹ 16	₹ 112
	Pastries	15	₹ 10	₹ 150
	Burgers	7	₹ 18	₹ 126
Grand Total				₹ 1908

MCQs

1. (b) 2. (a).

Time To Fun

- a. ₹ 500 ÷ 5 = ₹ 100
c. ₹ 360 ÷ 6 = ₹ 60

- b. ₹ 400 ÷ 8 = ₹ 50
d. ₹ 490 ÷ 7 = ₹ 70