

ADVANCE MATHEMATICS



Class 3

Teacher's Resource Book

Advance Mathematics-3

Revision

Sharad jumped = 120 centimetres

Jai jumped = 95 centimetres

120 > 95

So, Sharad jumped more.

Mona's length = 108 centimetres Roma's length = 121 centimetres

Priya's length = 119 centimetres

We know

121 > 119 > 108

So, position of Mona is III, Roma is I and Priya is II.

25. Number of buffaloes in a cattle farm = 329

Number of cows in a cattle farm = 145

Total number of animals in a cattle farm = 329 + 145 = 474There are 474 animals in a cattle farm.

28. Number of students in a school = 536

Number of girls in a school = 278

 \therefore Number of boys in a school = 536 - 278 = **258**

There are 258 boys in a school.

31. Number of marbles in a box = 54

Number of boxes Sudha have = 6

- \therefore Number of total marbles she have = $54 \times 6 = 324$ Sudha had 324 marbles in all.
- **33.** Total number of crayons = 48

Number of children among which they are shared equally = 6

∴ Each child will get = $48 \div 6 = 8$ crayons

Each child will get 8 crayons.

36. Total amount of money Josef had = ₹ 10

Amount of money spend on eating an ice cream cone = $\mathbb{7}$ 7.50

Amount of money left with Josef = 10 - 7.50 = ₹ 2.50

₹ 2.50 were left with Josef after spending.

41. Ali threw a ball to a distance of = 15 m 22 cm

 $= 1500 \, \text{cm} + 22 \, \text{cm}$

= 1522 cm

Mayank threw a ball 5 m 88 cm distance farther then Ali.

 \therefore Mayank threw a ball to a distance of = 1522 cm + 5 m 88 cm

= 1522 cm + 500 cm + 88 cm

= 1522 cm + 588 cm

= 2110 cm = 21 m 10 cm

Mayank threw a ball to a distance of 21 m 10 cm.

42. Amount of milk in the vessel = 2 L 250 mL

= 2000 mL + 250 mL

= 2250 mL

Amount of milk which children drank = 1 L 350 mL

= 1000 mL + 350 mL

= 1350 mL

Amount of milk left in the vessel = 2250 mL - 1350 mL

 $= 900 \, \text{mL}$

900 mL of milk is left in the vessel.

44. Weight of an empty container = 1 kg 150 g

= 1000 g + 150 g

 $= 1150 \, \mathrm{g}$

Weight of the biscuits in it = 5 kg 750 g = 5000 g + 750 g

= 5750 g

Total weight of container and biscuits together

= 1150 g + 5750 g

 $= 6900 \, \mathrm{g}$

= 6 kg 900 g

Total weight of container and biscuits together is 6 kg 900 g.

Unit-II: Fundamental Operations

3. Addition

Exercise 3.5

1. Packets of milk in a dairy = 650

Mother Dairy truck delivered packets = 297

Total packets of milk in the dairy = 650 + 297

= 947 packets

There are 947 packets of milk are in the dairy now.

2. People in a compartment of a train = 365

People in other compartment of the train = 289

People in both compartment = 365 + 289 = 654

There are 654 people in both compartment of the train.

3. Pencils in the box = 1499

Pencils in the carton box = 788

Pencils in both, box and carton box = 1499 + 788

= 2287

There are 2287 pencils in the box and in the carton box both.

4. Boys present in the school = 875

Girls present in the school = 562

Total number of students present in the school = 875 + 562

= 1437

There are 1437 students present in the school.

5. There are roses in the garden = 375

There are marigolds the garden = 642

There are lilies in the garden = 142

Total flowers in the garden = 375 + 642 + 142 = 1159

There are 1159 flowers in the garden.

6. On Saturday, men visited = 1475

On Saturday, women visited = 309

On Saturday, children visited = 2787

On Saturday, total people visited the museum

$$= 1475 + 309 + 2787$$

= 4571

On Saturday, total 4571 people visited the museum.

7. The public library bought books from Delhi Book Fair = 2947
The public library bought books from World Book Fair = 5050
The public library bought total books = 2947 + 5050 = **7997**The public library bought 7997 books from Delhi Book Fair and World Book Fair in 2019.

Let's Recall

8. (c) Number of herbs in the garden = 1500

Number of shrubs in the garden = 1440

Number of trees in the garden = 500

Total number of plants in the garden = 1500 + 1440 + 500

= 3440

Thus, there are total 3440 plants in the garden.

4.

Subtraction

Exercise 4.5

1. Number of Pepsi bottles in a van = 2500

Number of bottles delivered = 1698

:. Number of bottles left = 2500 - 1698 = 802

There were 802 bottles left undelivered.

2. Number of people that came to a meeting = 4207

Number of chairs available = 2460

 \therefore Number of people left standing = 4207 - 2460 = 1747 1747 people had to stand.

3. Smallest 4-digit number = 1000

Greatest 3-digit number = 999

On subtracting greatest 3-digit number from smallest 4-digit

number = 1000 - 999

We get = 1000 - 999

= 1

٠.

4. Number of apples bought on Republic day = 4000

Number of apples distributed = 3166

Number of apples left = 4000 - 3166 = 834834 apples were left after distribution.

5. Total number of seats in a cinema hall = 1500

Number of persons who viewed a show on Sunday = 1278

∴ No. of seats left vacant = 1500 - 1278 = 222

There were 222 seats vacant on Sunday's show.

6. Total number of children in a village = 2784

Number of boys in a village = 1238

Number of girls in a village = 2784 - 1238

= 1546

There are 1546 girls in a village.

7. Height of Mount Everest = 8848 m

Height of Mount Kanchenjunga = 8598 m

Height of Mount Everest exceeding Mount Kanchenjunga

= 8848 - 8598

= 250 m

Mount Everest is 250 m higher than Mount Kanchenjunga.

8. Number of wheat bags in a godown = 8088

Number of bags sold out = 6386

Number of bags left = 8088 - 6386 = 1702

There were 1702 bags left in the godown.

Let's Recall

7. (c) 1000 less than 7700 is = 7700 - 1000

= 6700

8. (d) Number of baseball cards Raijv had = 8

Total number of baseball cards = 17

Number of baseball cards that Rajiv got on his birthday

= 17 - 8

= 9

Thus, Rajiv got 9 baseball cards on his birthday.

Exercise 5.1

- **2.** Number of wool's ball required to weave a sweater = 16 Number of sweaters to weave = 8
 - ∴ Total number of wool balls required to weave 8 sweaters

 $= 16 \times 8$ = **128**

128 balls of wool will be required to weave 8 such sweaters.

3. Number of stories Mona reads in 1 day = 5

Total number of days she read stories = 15

Number of stories she reads in 15 days = $15 \times 5 = 75$

Mona will read 75 stories in 15 days.

- **4.** Number of bananas in 1 bunch = 12
 - \therefore Number of bananas in 8 bunches = $12 \times 8 = 96$

There will be 96 bananas in 8 bunches.

5. Number of desks in 1 row = 15

Total number of rows = 9

 \therefore Number of desks in a hall = $15 \times 9 = 135$

There are 135 desks in that hall.

6. One student gets = 7 books

Number of students in a class = 17

 \therefore Total number of books required = 17×7

= 119

119 books will be required for whole class.

Exercise 5.7

1. Number of Pepsi bottles in 1 crate = 24

Number of crates = 75

 \therefore Total number of bottles = $75 \times 24 = 1800$

There are 1800 bottles in 75 crates.

2. Amount of milk Sania buys daily = 24 litres

Number of days in a year = 365

 \therefore Total amount of milk Sania buys in a year = 24 \times 365

= 8760 litres

Sania buys 8760 litres of milk in 1 year.

3. Number of children in each bus = 50

Number of total buses that visited zoo = 20

 \therefore Total number of children who visited the zoo = 50×20

= 1000

There were 1000 children who visited the zoo.

4. Number of crayons in each packet = 12

Number of total packets = 20

 \therefore Total number of crayons in all = 20×12

= 240

There are 240 crayons in all.

5. Number of candles in a box = 48

Number of boxes = 54

 \therefore Total number of candles in 54 boxes = 54 \times 48

= 2592

There are 2592 candles in 54 boxes.

6. Number of apples on each tree = 25

Number of apples trees in a garden = 128

Total number of apples in a garden = 25×128

= 3200

There are 3200 apples in a garden.

7. Weight of each rice bag = 98 kg

Number of rice bags = 96

Total weight of 96 rice bags = 98×96

= 9408 kg

Weight of 96 rice bags is 9408 kg.

8. Number of hours in a week = 168

Number of weeks = 52

Total number of hours in 52 weeks = 168×52

= 8736

There are 8736 hours in 52 weeks.

9. Cost of one shirt = \mathbb{Z} 224

Number of shirts = 44

Total cost of 44 shirts = 224×44

= ₹ 9856

Cost of 44 shirts is ₹ 9856.

10. Cost of 1 lamp = ₹ 255

Number of lamps = 36

Total cost of 36 lamps = 255×36

= ₹9180

Cost of 36 lamps is ₹ 9180.

11. Number of mangoes in 1 box = 48

Number of boxes = 188

 \therefore Total number of mangoes in 188 boxes = 48×188

= 9024

There are 9024 mangoes in 188 boxes.

Number of balloons in one packet = 144

Number of balloon packets = 65

Total number of balloons in 65 packets = 144×65

= 9360

There are 9360 balloons in 65 packets.

Let's Recall

4. Number of wheels need for making 8 tricycles = 8×3

= 24

Thus, there will be 24 wheels in 8 tricycles.

7. **(b)** Number of glasses = 24

Number of breaking glasses = 8

Number of glasses left = 24 - 8

There are breaking glasses is 24 - 8.

8. (c) The number of days in 15 simple years = 15×365 days.

[:: 1 year = $365 \, \text{days}$]

9. (a) Number of boys in the class = 25

Number of girls in the class = 15

Total number of students in the class = 25 + 15

There are (25 + 15 = 40) students in the class.

10. (c) Cost of 1 toy = ₹ 95

Number of toys = 10

Total cost of 10 toys = 95×10

Cost of 10 toys is = 95×10

The cost of 10 toys will be (95×10) .

5. Division

Exercise 6.7

1. Total number of beds available in rest house = 168 Number of halls available for their equal arrangement = 6

 $\therefore \qquad \text{Number of beds in each hall} = \frac{168}{6}$

= 28

28 beds are there in each hall.

2. Number of benches required for 5 students to sit = 1

Total number of students = 635

 \therefore Number of benches required for 635 students to sit = $\frac{635}{5}$

= 127

127 benches are required for 635 students to sit.

3. Total number of marbles = 1642

Number of marbles to be packed in each packet = 6

To find number of packets made we divide 1642 (total marbles)

by 6 (marbles in each packet) =
$$\frac{1642}{6}$$

 \Rightarrow Quotient = **273**; Remainder = **4**

Therefore, 4 marbles will be left over.

4. Total number of students = 5625 Number of equal groups = 9

$$\therefore \text{ Number of students in each group} = \frac{5625}{9}$$

625 students were there in each group.

5. Number of mangoes in each packet = 16
Total number of mangoes available = 1024

Total packets made from these mangoes = $\frac{1024}{16}$

= 64

Therefore, 64 packets will be made from these mangoes.

6. Total number of crayons to be shared = 385

Number of girls among whom these crayons are shared = 3

We divide 385 (total crayons) by 3 (total girls) to calculate each share $=\frac{385}{3}$

Quotient = 128; Remainder = 1

Therefore each girl will get 128 crayons and 1 crayon will be left over.

7. Total number of bananas = 4112

Number of boxes in which they are packed equally = 8

$$\therefore \qquad \text{Number of bananas in each boxes} = \frac{4112}{8}$$

= 514

There are 514 bananas in each box.

8. Total mass of all containers = 2790 kg

Number of containers = 5

$$\therefore \text{ Mass of each container} = \frac{2790}{5} = 558 \text{ kg}$$

Mass of each container is 558 kg.

9. Number of children walked in a rally = 2865

Number of children in each group = 15

∴ Total number of groups formed =
$$\frac{2865}{15}$$
 = **191**

191 groups were formed.

Total number of pages =
$$1792$$

Number of story book = 8

$$\therefore \text{ Number of pages in each story book} = \frac{1792}{8} = 224$$

There were 224 pages in each story book.

11. Total number of marbles
$$= 3096$$

Number of boxes in which these are to be packed =
$$12$$

Number of marbles in each box =
$$\frac{3096}{12}$$

= **258**

There are 258 marbles in each box.

12. Amount of milk sold =
$$3340$$
 litres Number of days it was sold = 20

$$\therefore \text{ Amount of milk sold in a day} = \frac{3340}{20}$$

167 litres of milk was sold in a day.

Let's Recall

6. (a) Number of fish in one fish bowl = 2

Total number of bowls =
$$20$$

Number of fish in 20 bowls =
$$20 \times 2$$

So, 40 fishes will to put in 20 bowls.

7. (a) Cost of each 5-star balloons =
$$\mathbf{7}$$
 5

Number of 5-star balloons for $\stackrel{?}{\checkmark}$ 50 = **50** ÷ **5**

8. (a) A car can to take 6 people = 1 trip

Total number of people
$$= 30$$

Number of trips to take 30 people =
$$\frac{30}{6}$$

There will be 5 trips to take 30 people.

9. (a) Number of plants in a row = 12

Total number of rows
$$= 40$$

Number of plants in 40 rows = 12×40

There will be 12×40 plants in 40 rows.

Unit-III : Fractional Numbers7. Common Fractions

Exercise 7.4

- **4.** Number of hours Dinesh sleeps = 7

 Total hours in a day = 24

 Fraction of the day that Dinesh sleeps = $\frac{7}{24}$.
- 5. Number of mangoes Anju bought = 8

 Number of rotten mangoes = 3

 Number of good mangoes = 8 3 = 5Fraction of mangoes that were good = $\frac{5}{8}$.
- **6.** Marks that Roma got = 33 out of 50 We can divide 50 marks into fraction. Here, Roma got 33 marks of 50 equal marks.
 - $\therefore \text{ Fraction of marks that Roma got} = \frac{33}{50}$

Exercise 7.7

- **26.** Fraction of book Komal read in one hour = $\frac{9}{13}$ part

 Fraction of book Savita read in one hour = $\frac{7}{13}$ part

 Thus, Komal read more than Savita (as $\frac{9}{13} > \frac{7}{13}$)

 Hence, Komal read more.
- **27.** Fraction of an apple Swati ate $=\frac{1}{3}$ part

 Fraction of an apple Reema ate $=\frac{1}{4}$ part

 Thus, Swati ate more part than Reema $\left(as \frac{1}{3} > \frac{1}{4}\right)$ Hence, Swati ate more.

Exercise 7.10

1. Distance moved by an ant in first minute = $\frac{7}{16}$ m

Distance moved by an ant in second minute = $\frac{5}{16}$ m

10

Total distance moved =
$$\frac{7}{16} + \frac{5}{16} = \frac{12}{16}$$

= $\frac{12}{16}$ metre

Ant moves $\frac{12}{16}$ m in all.

In first hour, Shyam read = $\frac{5}{16}$ part

In second hour, he read = $\frac{7}{16}$ part

In third hour, he read = $\frac{3}{16}$ part

Fraction of book Shyam read in three hours =
$$\frac{5}{16} + \frac{7}{16} + \frac{3}{16}$$

= $\frac{15}{16}$ part

Shyam read $\frac{15}{16}$ part of book in these three hours.

3. Fraction of sweater Mona knit on first day = $\frac{3}{10}$ part

On second day, she knit = $\frac{4}{10}$ part

On third day, she knit = $\frac{2}{10}$ part

Fraction of sweater she knit in three days = $\frac{3}{10} + \frac{4}{10} + \frac{2}{10}$ = $\frac{9}{10}$

Mona knit $\frac{9}{10}$ part of the sweater in three days.

4. Distance ran by Tina in one hour = $\frac{5}{8}$ km Distance ran by Anshu in one hour = $\frac{3}{8}$ km

Thus, Tina ran more distance in one hour (as 5 > 3)

Distance that Tina ran more than Anshu in one hour = $\frac{5}{8} - \frac{3}{8}$ = $\frac{2}{8}$ km

Thus, Tina ran $\frac{2}{8}$ km distance more than Anshu in one hour.

5. Fraction of money Ansh spent on sweets = $\frac{4}{9}$ part Fraction of money he spent on fruits = $\frac{1}{9}$ part Total fraction of money which he spent all together = $\frac{4}{9} + \frac{1}{9}$

Fotal fraction of money which he spent all together =
$$\frac{4}{9} + \frac{1}{9}$$

= $\frac{5}{9}$ part

Ansh spent $\frac{5}{9}$ part of his money.

6. Fraction of a book that Pari read in 1 hour = $\frac{11}{15}$ part Fraction of a book that Shiva read in 1 hour = $\frac{13}{15}$ part Thus, Shiva read more than Pari (as 13 > 11) Fraction of book that Shiva read more than Pari = $\frac{13}{15} - \frac{11}{15}$ $=\frac{2}{15}$ part

Hence, Shiva read $\frac{2}{15}$ part more than Pari.

7. Fraction of property that a man gave to his daughter = $\frac{5}{6}$ part Fraction of property that he gave to his son = $\frac{3}{8}$ part

Thus, his daughter got more property than his son (as 5 > 3) Fraction of property that his daughter got more than his son

$$= \frac{5}{8} - \frac{3}{8}$$
$$= \frac{2}{8}$$
 part

Thus, his daughter got $\frac{2}{8}$ part of the property more than his son.

7. **(b)** Given fraction = $\frac{\text{Let's Recall}}{7}$

To make it whole
$$=$$
 $\left(1 - \frac{2}{7}\right) = \frac{5}{7}$

By adding $\frac{5}{7}$ it will be whole

8. (a) Total spaces in a game board = 6

Shaded spaces = 3

Then fraction of the game board = $\frac{3}{6}$

9. (a) Total part = 3 (from given circle)

Unshaded part = 2

Shaded part = 1

Then, the fraction of unshaded part will be = $\frac{2}{3}$

Unit-IV : Indian Currency Currency

Exercise 8.3

1. Money spent on purchasing some mangoes = ₹ 39.75

Money spent on purchasing some bananas = ₹ 97.50

Total money that Saif paid = 39.75 + 97.50 = ₹ **137.25**

Saif paid ₹ 137.25 in all.

8.

2. Cost of a birthday present = ₹ 27.50

Cost of a card = ₹ 3.75

Total money that Ravi spend = 27.50 + 3.75

= ₹ **31.25**

Ravi spend of ₹ 31.25 in all.

3. Cost of a slab of biscuits = ₹ 12.50

Cost of chocolate = ₹ 6.50

Cost of toffee = $\mathbf{\xi}$ 4.20

Total cost of 3 items = 12.50 + 6.50 + 4.20

= ₹ **23.20**

Neha paid ₹ 23.20 in all.

4. Money spent on purchasing rice = ₹ 325.25

Money spent on purchasing wheat = ₹ 85.75

Charges of cart-puller = ₹ 8.50

Total amount of money spent = 325.25 + 85.75 + 8.50

= ₹ 419.50

Devid spend of ₹ 419.50 in all.

5. Cost of a chair = ₹ 1272.75

Cost of a table = ₹ 2170.50

Cost of an almirah = ₹ 4507.75

Total money spend = 1272.75 + 2170.50 + 4507.75= ₹ **7951**

Manu spend total of ₹ 7951.

6. Amount of Mobile bill for first month = ₹ 203.50

Amount of Mobile bill for second month = ₹ 205.25

Amount of Mobile bill for third month = 202.75

Total amount paid by John = 203.50 + 205.25 + 202.75

= ₹611.50

John paid ₹ 611.50 for three months.

Exercise 8.6

1. Cost price of a pencil = ₹ 7.50

Cost price of a ballpen = ₹ 9.25

Ballpen is costlier than pencil by = 9.25 - 7.50

= ₹ **1.75**

Ballpen is ₹ 1.75 costlier than a pencil.

2. Cost of stamps = $\mathbf{\xi}$ 6.25

Amount of money Shikhar gave = ₹ 10 Amount of money left = 10 – 6.25

= ₹ **3.75**

Shikhar will get back ₹ 3.75

3. Cost of purchasing story book = ₹ 62.75

Cost of purchasing notebooks = ₹ 33.50

Amount of money she gave = ₹ 100

Amount of money left = 100 - (62.75 + 33.50)

= 100 - 96.25

= ₹ **3.75**

Shopkeeper will return ₹ 3.75 to Pari.

4. Amount of money Rahul had = ₹ 180.00

Amount of money he lent to Lovy = ₹ 94.50

Amount of money left with him = 180.00 - 94.50

= ₹85.50

₹ 85.50 is left with Rahul.

5. Cost of purchasing saree = 344.75

Amount of money Kanak gave to shopkeeper = ₹ 500

Amount of money left = 500 - 344.75

= ₹ **155.25**

Kanak will get back ₹ 155.25.

6. Cost of raincoat = ₹ 143.25

Cost of an umbrella = ₹ 85.75

Number of one hundred rupees note Renu gave = 3

Total amount she gave = ₹ 300 Amount of money left with her = 300 - (143.25 + 85.75)= 300 - 229.00= ₹ **71**

Renu will get back ₹ 71.

7. Cost of a toffee = ₹ 6.75

Cost of chocolate = ₹ 13.75

Amount of money Pari gave = ₹ 50

Amount of money left = 50 - (6.75 + 13.75) = ₹ 29.50

Pari will get back ₹ 29.50.

8. Cost of purchasing biscuits = ₹ 6.50

Cost of purchasing chips = ₹ 8.75

Cost of purchasing buns = ₹ 11.25

Total amount of money Rishi spend = 6.50 + 8.75 + 11.25

= **₹ 26.50**

Rishi spent ₹ 26.50 in all.

9. Amount of money in Jai's bank account = ₹ 125.50

Amount of money he wants in a bank = ₹ 160.00

Amount of money required = 160.00 − 125.50 = ₹ **34.50**

Thus, Jai should deposit ₹ 34.50 more.

10. Cost of purchasing *Chunni* = $\stackrel{?}{\stackrel{?}{\sim}}$ 55.75

Number of 10 rupee notes Renu gave to salesman = 6

Total amount she gave to salesman = $6 \times 10 = 60$

Amount of money left = 60 - 55.75

= ₹ **4.25**

Renu will get back a change of ₹ 4.25.

11. Money deposited by Rahul on Monday = ₹ 310.50

Money deposited by him on Tuesday = ₹ 125.75

Amount of money he withdrew on Friday = ₹ 284.50

Money left = (310.50 + 125.75) - 284.50 = ₹**151.75**

Rahul had left with ₹ 151.75 in his account.

Exercise 8.7

19. Cost of 1 greeting card =
$$\stackrel{?}{\stackrel{?}{}}$$
 7.75 Cost of 8 greeting cards = $\stackrel{?}{\stackrel{?}{}}$ 7.75 \times 8

= ₹ **62**

 $7.75 \times 8 \over 62.00$

Cost of 8 greeting cards ₹ 62.

20. Cost of 1 eraser = ₹ 2.50

₹ P 2.50

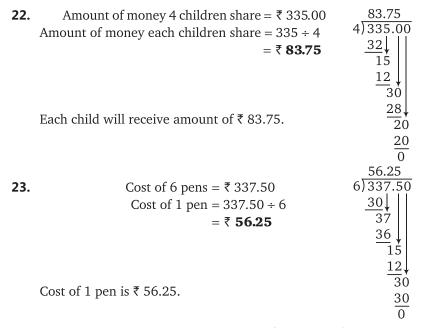
Cost of 10 erasers = 2.50×10 = $\mathbf{\r{7}25}$

× 10 25.00

Cost of 10 erasers is ₹ 25.

They require ₹ 376.50 for buying their tickets.

Exercise 8.8



= ₹ **376.50**

24. Cost of 4 chocolates =
$$₹$$
 27.00 Cost of 1 chocolate = $27.00 \div 4$ = $₹$ **6.75**

Cost of 1 chocolate is ₹ 6.75.

$$\begin{array}{c|c}
30 \\
28 \\
\hline
20 \\
\hline
20 \\
0
\end{array}$$

$$\begin{array}{c|c}
4.70 \\
8) 37.60 \\
32 \\
\downarrow
\end{array}$$

56

56

6.75 4)27.00

24

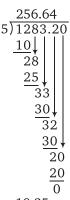
25. Cost of a set of 8 glass spoons =
$$₹ 37.60$$

Cost of 1 glass spoons = $37.60 \div 8$
= $₹ 4.70$
Cost of each glass spoon is $₹ 4.70$.

·

Cost of 1 chair is ₹ 256.64.

26.



27. Amount of money Mona gave to vendor = ₹ 100 Amount of money vendor returned to Mona = ₹ 27.00

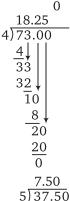
∴ Cost of 4 apples =
$$100 - 27 = ₹73$$

Cost of 1 apple = $73 ÷ 4$
= ₹ **18.25**

Cost of 1 apple is ₹ 18.25.

28. Cost of 5 fruit bathing soaps =
$$\stackrel{?}{\stackrel{?}{=}}$$
 37.50 Cost of 1 fruit bathing soap = $37.50 \div 5$ = $\stackrel{?}{\stackrel{?}{=}}$ **7.50**

Cost of 1 fruit bathing soap is ₹ 7.50.



35 ↓

2Ś

Cost of 9 vests = ₹ 473.40
Cost of 1 vest =
$$473.40 \div 9$$

= ₹ **52.60**

52.60 9)473.40 45 18

Cost of 1 vest is ₹ 52.60.

156.50 8)1252.00 $\frac{40}{52}$ $\frac{48}{40}$ 40

Cost of 1 stool is \ge 156.50.

Let's Recall

6. (c) 1 Paise = ₹
$$\frac{1}{100}$$

1205 Paise = ₹ $\frac{1}{100} \times 1205$

Total amount of money = ₹ 120 7. (a)

Number of children = 4

Amount received by each child = ₹
$$\frac{120}{4}$$
 = ₹ **30**

Therefore each child will get ₹ 30.

$$\frac{200}{50} = 4 \operatorname{coin}$$

= four 50-paise

So, Number of four 50-paise.

9. (c) Total rupees = ₹ 17.50

In paise =
$$17.50 \times 100$$
 Paise (₹ 1 = 100 Paise)
= 1750 Paise

Number of 50 paise coins =
$$1750 \div 50 = \frac{1750}{50} = 35$$

So, Number of 50 paise coins is 35.

Unit-V: Measurement of Time 9. Clock and Calendar

Exercise 9.5

Starting time of news = 8:40Duration time of news = 0:20

News will end =
$$8:40+0:20$$

Ending time of news =
$$8:40$$

+ $0:20$
 $8:60$

We know that 60 min = 1 hour

Ending time of news = 8 + 1 = 9 : 00

News will end at 9 o'clock in the night.

2. Time taken by car from Meerut to Delhi = 1 hour 45 min

$$= 1:45$$

Time at which car starts from Meerut = 8:15

Time at which car will reach Delhi =
$$8:15$$

+ $\frac{1:45}{9:60}$

We know that 60 min = 1 hour

 \therefore Time at which car will reach Delhi = (9 + 1)

$$= 10:00$$

Car will reach at 10 o'clock to Delhi.

3. Starting time of the movie = 3:30

Duration time of the movie = 2:30

Ending time of the movie
$$= 3:30$$

We know that 60 min = 1 hour

$$\therefore$$
 Ending time of movie = $(5 + 1)$

$$= 6:00$$

Movie will end at 6 o'clock.

4. School goes off at = $2:20 \, \text{o}' \, \text{clock}$

Now time is = 1:35 o'clock

Time it will take to go off = 2:20-1:35

We know 1 hour = $60 \, \text{min}$

: 1 80 2 hours 20 min -1 hour 35 min 0 hour 45 min

School will go off after 45 min.

5. Time at present = 9:25 o'clock

Desired time = 10 o'clock

Time it will take to make 10 o'clock = 10:00 - 9:25

We know 1 hr = 60 min

9 60 Required time = 10 hours : 00 min

- 9 hours : 25 min
0 hours : 35 min

It will take 35 min.

٠:.

6. Roma gets up in the morning = 5:45

Time taken by her to get ready = 0:45

Time at which she is ready = 5:45+ 0:455:90

We know 60 min = 1 hour

 \therefore Time at which she is ready = 5 hr + (60 + 30) min

= 5 hr + 1 hr + 30 min

= 6 hr 30 min

Roma will get ready at 6:30 o'clock.

Unit VI : Metric Measures 10. Measures of Length

Exercise 10.2

8. Length of first side of the field = $35 \,\mathrm{m} 75 \,\mathrm{cm}$

$$1 \text{ m} = 100 \text{ cm}$$

$$35 \text{ m} = 35 \times 100 = 3500 \text{ cm}$$

:. Length of first side of the field = 35 m 75 cm

= (3500 + 75) cm

 $= 3575 \, cm$

Similarly, Length of second side of the field = 37 m 50 cm

$$= 37 \times 100 \, \text{cm} + 50 \, \text{cm}$$

$$= (3700 + 50) \text{ cm}$$

 $= 3750 \, cm$

Length of third side of the field = 40 m 5 cm

$$= 40 \times 100 \,\mathrm{cm} + 5 \,\mathrm{cm}$$

$$= (4000 + 5) \text{ cm}$$

 $= 4005 \, cm$

Length of fourth side of the field = 41 m

$$=41\times100\,\mathrm{cm}$$

 $=4100 \, cm$

Distance covered in one round = 3575 cm + 3750 cm

 $+4005 \, \text{cm} + 4100 \, \text{cm}$

 $= 15430 \, \text{cm}$

= 154 m 30 cm

Mehul covered 154 m 30 cm in one round.

9. Length of part of a tree broken in a storm = 2 m 85 cm

$$1 \text{ m} = 100 \text{ cm}$$

$$2 \text{ m} = 2 \times 100 = 200 \text{ cm}$$

:. Length of broken part of tree = 2 m 85 cm

$$= 200 \, cm + 85 \, cm = 285 \, cm$$

Similarly,

Height of tree after breaking the upper part = 12 m 25 cm

$$= 12 \times 100 \, \text{cm} + 25 \, \text{cm}$$

$$= (1200 + 25) \text{ cm}$$

$$= 1225 \, cm$$

Total height of tree = 285 cm + 1225 cm

$$= 1510 \, \text{cm} = 15 \, \text{m} \, 10 \, \text{cm}$$

Height of tree before breaking was 15 m 10 cm.

10. Length of first piece of iron rods = 2 m 25 cm

$$1 \text{ m} = 100 \text{ cm}$$

$$2m = 200 \, cm$$

 \therefore Length of first piece of iron rods = 2 m 25 cm

 $= 200 \, \text{cm} + 25 \, \text{cm}$

 $= 225 \, cm$

Similarly, length of second piece of iron rods = 1 m 75 cm

$$= 1 \times 100 \, \text{cm} + 75 \, \text{cm}$$

$$= 100 + 75 = 175 \,\mathrm{cm}$$

Length of the welded iron rods = $225 \, \text{cm} + 175 \, \text{cm}$

$$= 400 \, \text{cm} = 4 \, \text{m}$$

Length of welded iron rods is 4 m.

11. Length of first piece of cloth = 26 m 25 cm

$$1 \text{ m} = 100 \text{ cm}$$

$$26 \text{ m} = 26 \times 100 \text{ cm}$$

 $= 2600 \, \text{cm}$

 $\therefore \text{ Length of first piece of cloth} = 26 \text{ m } 25 \text{ cm}$ = 2600 cm + 25 cm = 2625 cm

Similarly,

Length of second piece of cloth = 22 m 75 cm

 $= 22 \times 100 \,\mathrm{cm} + 75 \,\mathrm{cm}$

= (2200 + 75) cm

 $= 2275 \, cm$

Length of third piece of cloth = 24 m 50 cm

 $= 24 \times 100 \, \text{cm} + 50 \, \text{cm}$

= (2400 + 50) cm

 $= 2450 \, \text{cm}$

Total length of three pieces of cloth = 2625 cm

+ 2275 cm + 2450 cm

 $= 7350 \, cm$

= 73 m 50 cm

Total length of cloth is 73 m 50 cm.

Exercise 10.3

7. Mona cycles in the morning = 6 km 85 m = 6000 m + 85 m

 $= 6085 \, \mathrm{m}$

Mona cycles in the evening = 5 km 925 = 5000 m + 925 m

 $= 5925 \,\mathrm{m}$

Total distance Mona covers in a day = $6085 \,\text{m} + 5925 \,\text{m}$

 $= 12010 \,\mathrm{m}$

= 12 km 10 m

Mona covers 12 km 10 m distance in a day.

8. Distance from Rajan home to airport = 2 km 65 m

 $= 2000 \,\mathrm{m} + 65 \,\mathrm{m}$

 $= 2065 \, \mathrm{m}$

Distance from airport to Central Railway Station = 5 km 140 m

 $= 5000 \,\mathrm{m} + 140 \,\mathrm{m}$

 $= 5140 \, \mathrm{m}$

Total distance Rajan covers to go Central Railway Station from his home

 $= 2065 \,\mathrm{m} + 5140 \,\mathrm{m}$

 $= 7205 \,\mathrm{m}$

= 7 km 205 m

Rajan covers 7 km 205 m to go Central Railway Station.

9. Distance covered by plane = 356 km 250 m = 356250 mDistance covered by bus = 25 km 125 m = 25125 m Distance covered by train = 50 km 75 m = 50075 mTotal distance covered = 356250 m + 25125 m + 50075 m $= 431450 \,\mathrm{m} = 431 \,\mathrm{km} \,450 \,\mathrm{m}$

David travelled 431 km 450 m.

10. Amita covered distance to go school = 3 km 125 m = 3125 mAmita covered distance to go Mall Road = 5 km 85 m = 5085 m Amita covered distance to go her house = 6 km 175 m $= 6175 \,\mathrm{m}$

Total distance covered by Amita = 3125 m + 5085 m + 6175 m

 $= 14385 \,\mathrm{m} = 14 \,\mathrm{km} \,385 \,\mathrm{m}$

Amita covered 14 km 385 m distance.

Exercise 10.4

12. Height to which Jai jumped = 1 m 5 cm

1 m = 100 cm

Height to which Jai jumped = 100 cm + 5 cm

 $= 105 \, cm$

Height to which Surject jumped = 95 cm

Difference in their jump = (105 - 95)

= 10 cm

Jai jumped 10 cm higher than Surjeet.

13. Length of a roll of wire = 100 m

1 m = 100 cm

 $100 \text{ m} = 100 \times 100 \text{ cm}$

 $= 10000 \, \text{cm}$

Length of first piece of wire = 48 m 35 cm

 $= 48 \times 100 \, \text{cm} + 35 \, \text{cm}$

= (4800 + 35) cm

 $= 4835 \, \text{cm}$

Length of second piece of wire = 45 m 80 cm

 $= 45 \times 100 \, \text{cm} + 80 \, \text{cm}$

 $= 4500 + 80 = 4580 \,\mathrm{cm}$

Length of left wire $= 10000 \, \text{cm}$

-(4835 cm + 4580 cm)

= 10000 - 9415

 $= 585 \, cm$

= 5 m 85 cm

5 m 85 cm of wire was left in the roll.

14. Total length of cloth = 32 m 20 cm

1 m = 100 cm

 $32 \text{ m} = 32 \times 100 \text{ cm}$

 $= 3200 \, \text{cm}$

 \therefore Total length of cloth = 3200 cm + 20 cm

 $= 3220 \, \text{cm}$

Length of cloth which tailor cut out of it = 25 m 75 cm

 $= 25 \times 100 \, \text{cm} + 75 \, \text{cm}$

= (2500 + 75) cm

 $= 2575 \, \text{cm}$

Length of cloth left = $3220 \, \text{cm} - 2575 \, \text{cm}$

 $= 645 \, cm$

= 6 m 45 cm

6 m 45 cm of cloth was left after cutting.

15. Height of Roma = 1 m 15 cm

1 m = 100 cm

 \therefore Height of Roma = 100 cm + 15 cm

 $= 115 \, cm$

Height of Shivani = 95 cm

Difference in their height = (115 - 95) cm = **20 cm** Roma is 20 cm taller than Shivani.

Exercise 10.5

10. My village is from Patna = 51 km 250 m = 51250 mRahul's village is from Patna = 39 km 470 m = 39470 m

∵ 51250 > 39470

 $51250 \,\mathrm{m} - 39470 \,\mathrm{m} = 11780 \,\mathrm{m} = 11 \,\mathrm{km} \,780 \,\mathrm{m}$

So, my village is at 11 km 780 m greater distance that Rahul's village.

11. Train-route = 72 km 725 m = 72725 m

Bus-route = 70 km 850 m = 70850 m

Difference in two routes = 72725 m - 70850 m = 1875 m

= 1 km 875 m

So, difference of two routes is 1 km 875 m.

12. Total journey = $120 \,\mathrm{km} = 120000 \,\mathrm{m}$

Distance covered by car = 70 km 400 m = 70400 m

Distance covered by bus = $120000 \,\mathrm{m} - 70400 \,\mathrm{m}$

 $= 49600 \,\mathrm{m}$

= 49 km 600 m

Distance covered by bus is 49 km 600 m.

Exercise 10.6

10. Distance crawls by earthworm in 1 minute = 7 m 50 cm

1 m = 100 cm

$$7 \text{ m} = 7 \times 100 \text{ cm}$$

= 700 cm

 \therefore Distance crawls by earthworm in 1 minute = 7 m 50 cm

$$= 700 \, \text{cm} + 50 \, \text{cm}$$

 $= 750 \, \text{cm}$

Now,

1 hour = 60 min

:. Distance crawls by earthworm in 60 min (one hour)

$$=60\times750\,\mathrm{cm}$$

 $= 45000 \, \text{cm} = 450 \, \text{m}$

Earthworm will crawls 450 m in one hour.

11. Length of cable wire in a roll = 97 m 36 cm

1 m = 100 cm

 $97 \text{ m} = 97 \times 100 \text{ cm}$

 $= 9700 \, \text{cm}$

∴ Length of cable wire in a roll = 97 m 36 cm

 $= 9700 \, \text{cm} + 36 \, \text{cm}$

= 9736 cm

Length of cable wire in 26 rools = 26×9736 cm

= 253136 cm

= 2531 m 36 cm

Length of cable wire in 26 rolls is 2531 m 36 cm.

12. Length of cloth required for *Salwar-Kurta* = 3 m 75 cm

 $3 \text{ m} = 3 \times 100 \text{ cm}$

 $= 300 \, \text{cm}$

Length of cloth required = 3 m 75 cm

 $= 300 \, \text{cm} + 75 \, \text{cm}$

 $= 375 \, cm$

Length of cloth required for 9 *Salwar-Kurta* = 9×375 cm

 $= 3375 \, cm$

= 33 m 75 cm

Length of cloth required for 9 Salwar-kurta is 33 m 75 cm.

13. Distance covered by bike in 1 minute = 80 m 25 cm

$$80 \text{ m} = (80 \times 100) \text{ cm} = 8000 \text{ cm}$$

∴ Distance covered by bike in 1 minute = 80 m 25 cm

 $= 8000 \, \text{cm} + 25 \, \text{cm}$

 $= 8025 \, cm$

Distance covered by bike in 25 minutes = 25×8025 cm

=200625

= 2006 m 25 cm

Distance covered by bike in 25 minutes is 2006 m 25 cm.

14. Length of wire in 1 roll = 45 m 75 cm1 m = 100 cm $45 \text{ m} = 45 \times 100 \text{ cm}$ $= 4500 \, cm$ Length of wire in 1 roll = 45 m 75 cm $= 4500 \, \text{cm} + 75 \, \text{cm}$

 $= 4575 \, \text{cm}$

Length of wire in 53 rolls = 53×4575 = 242475 cm = **2424 m 75 cm**

Length of thread in 53 rolls is 2424 m 75 cm.

15. Length of each string = $35 \,\mathrm{m} \, 16 \,\mathrm{cm}$

1 m = 100 cm

35 m = 3500 cm

Length of each string = 35 m 16 cm ٠:.

 $= 3500 \, \text{cm} + 16 \, \text{cm}$

= 3516 cm

Length of 15 strings = 15×3516 cm

 $= 52740 \, \text{cm}$

= **527** m **40** cm

Length of 15 strings is 527 m 40 cm.

Exercise 10.7

17 .	Length of total cloth = 11 m	220
	1 m = 100 cm	5) 1100
	$11 \text{ m} = 11 \times 100 \text{ cm}$	<u>10</u> ↓
	\therefore Length of total cloth = 1100 cm	10
	It is cut into 5 equal pieces.	$\frac{10}{00}$
	Length of each piece of cloth = $1100 \text{cm} \div 5$	00
	= 220 cm	
	= 2 m 20 cm	
	Length of one piece of cloth is 2 m 20 cm.	

Length of one piece of cloth is 2 m 20 cm.

0 1		
Total length of ribbon = $19 \mathrm{m}52 \mathrm{cm}$	488_	
$1 \text{ m} = 100 \text{ cm}$; $19 \text{ m} = 19 \times 100 \text{ cm} = 1900 \text{ cm}$	4) 1952	
∴ Total length of ribbon = 19 m 52 cm	<u>16</u> ↓	
= 1900 cm + 52 cm	35	
= 1952 cm	$\frac{32}{3}$	
It is divided into 4 equal pieces.	32 32	
Length of each piece of ribbon = $1952 \text{ cm} \div 4$		
$=488 \mathrm{cm}$	0	

= 4 m 88 cm

Length of one piece of ribbon is 4 m 88 cm.

18.

19 .	Total length of thread reel = $85 \mathrm{m}32 \mathrm{cm}$	1422
	1 m = 100 cm	6) 8532
	$85 \text{ m} = 85 \times 100 \text{ cm}$	6
	$= 8500 \mathrm{cm}$	25
	∴ Total length of thread reel = 85 m 32 cm	24
	= 8500 cm + 32 cm	13
	= 8532 cm	<u>12</u> ↓
	It is shared among 6 boys.	12
	Length of thread each boy will have = $8532 \text{ cm} \div 6$	$\frac{12}{0}$
	= 1422 cm	0
	= 14 m 22 cm	
	Length of thread got by each boy is 14 m 22 cm.	
20.	Total length of cloth = $13 \text{ m } 20 \text{ cm}$	165
	1 m = 100 cm	8) 1320
	$13 \text{ m} = 13 \times 100 \text{ cm}$	<u>8</u> ↓
	= 1300 cm	52
	\therefore Total length of cloth = 13 m 20 cm	<u>48</u>
	$= 1300 \mathrm{cm} + 20 \mathrm{cm}$	40
	= 1320 cm	40
	It is cut into 8 equal pieces.	0
	Length of each piece of cloth = $1320 \text{ cm} \div 8 = 165 \text{ cm}$	
	= 1 m 65 cm	
	Length of one piece of cloth is 1 m 65 cm.	

11. Measures of Mass

Exercise 11.2

Total weight of tin and chocolates = 1 kg 180 g+ 6 kg 450 g $\mathbf{7 \text{ kg } 630 \text{ g}}$

Total weight of tin and chocolates is 7 kg 630 g.

Weight of kitten =
$$1 \text{ kg } 675 \text{ g}$$

Weight of puppy = $2 \text{ kg } 155 \text{ g}$

11

Total mass of the two = 1 kg 6 7 5 g+ 2 kg 1 5 5 g3 kg 8 3 0 g

Total mass of the two animals is 3 kg 830 g.

```
Weight of wheat = 1 kg 450 g

Weight of rice = 2 kg 775 g

Weight of sugar = 1 kg 325 g

\boxed{1} \quad \boxed{1} \boxed{1}

Total weight of these three items = 1 kg 4 5 0 g

2 \text{ kg 7 7 5 g}

+ 1 \text{ kg 3 2 5 g}

\boxed{5 \text{ kg 5 5 0 g}}
```

Total weight of three items is 5 kg 550 g.

15. Amount of vegetables bought by Ali = 5 kg 125 g Amount of fruits bought by Ali = 6 kg 785 g $\boxed{1}$

> Total weight of the bag she carry = 5 kg 1 2 5 g+ 6 kg 7 8 5 g11 kg 9 10 g

Total weight of Ali's bag is 11 kg 910 g.

Exercise 11.3

10. Amount of rice Madhu gets on her ration card = 3 kg 375 gRequirement of her family = 5 kg

Amount of rice she purchases from market = 5 kg 0 0 0 g-3 kg 3 7 5 g -1 kg 6 2 5 g

Manvi will purchase 1 kg 625 g of rice from market.

11. Amount of wheat in a sack = 45 kg 70 gAmount of wheat used by Roso = 26 kg 590 g

Amount of wheat left in a sack = $\begin{array}{r}
34 & 9 \\
45 & kg & 0.7 & 0.g \\
-2.6 & kg & 5.9 & 0.g \\
\hline
1.8 & kg & 4.8 & 0.g
\end{array}$

Amount of wheat left in the sack is 18 kg 480 g.

12. Weight of carton with grapes = 5 kg 120 g

Weight of carton alone = 175 g

Weight of grapes alone = $\begin{bmatrix} 4 & 101 \\ 5 & kg & 1 & 2 & 0 & g \\ - & 0 & kg & 1 & 7 & 5 & g \\ \hline 4kg & 9 & 45 & g & g & 1 & 2 & g \end{bmatrix}$

Here we borrowed 1 kg = 10 hundreds of g \therefore Weight of grapes alone is 4 kg 945 g.

Total weight of apples =
$$5 \text{ kg}$$

Amount of apples rotten = 250 g

Amount of apples left =
$$\begin{bmatrix} 4 & 9 & 10 \\ 5 & kg & 0 & 0 & 0 & g \\ - & 2 & 5 & 0 & g \\ \hline 4 & kg & 7 & 5 & 0 & g \end{bmatrix}$$

Amount of apples used in the family = 2 kg 4 7 5 g

Net amount of apples left =
$$4 \text{ kg } 750 \text{ g}$$

 $-2 \text{ kg } 475 \text{ g}$
 $2 \text{ kg } 275 \text{ g}$

Net amount of apples left were 2 kg 275 g.

Exercise 11.4

12. Weight of one carton of mangoes =
$$5 \text{ kg } 220 \text{ g}$$

Total weight of 5 carton of mangoes =
$$\begin{bmatrix} \boxed{1} & \boxed{1} \\ 5 & \text{kg } 220 & \text{g} \\ \times & 5 \\ \hline \textbf{26kg100 g} \end{bmatrix}$$

Total weight of 5 carton of mangoes is 26 kg 100 g.

13. Weight of one sports shoe =
$$478 g$$

Weight of 4 pairs (or 8 shoes) of sports shoes =
$$478 g$$
 $\times 8$
 $3824 g$

= 3 kg 824 g

Total mass of 4 pairs of sports shoes is 3 kg 824 g.

14. Weight of 1 English book =
$$325 g$$

Weight of 6 English books = $6 \times 325 g = 1950 g$
 $1000 g = 1 kg$
= $1 kg 950 g$

Weight of 6 English books is 1 kg 950 g.

15. Weight of one chocolates box = 1 kg 320 g

Weight of 9 chocolates boxes =
$$\begin{array}{r}
\boxed{2} \quad \boxed{1} \\
1 \text{ kg } 320 \text{ g} \\
\times 9 \\
\hline
\mathbf{11kg880 g}
\end{array}$$

Weight of 9 chocolates boxes is 11 kg 880 g.

Exercise 11.5

13. Total amount of toffees = 6 kg 360 g
$$= 6 \times 1000 \text{ g} + 360 \text{ g}$$

$$= 6000 \text{ g} + 360 \text{ g}$$

$$= 6360 \text{ g}$$

$$= 6360 \text{ g}$$
Total number of families in which it is to be divided = 8
Amount of toffees each family will get = 6360 g ÷ 8
$$= 795 \text{ g}$$
Each family will get 795 g of toffees.

14. Total amount of sugar = 8 kg
Number of person in which it is to be divided = 5
Amount of sugar each person will get = 8 kg ÷ 5
$$= 8000 \text{ g} ÷ 5$$

$$= 1600 \text{ g}$$

$$= 1 \text{ kg 600 g}$$
Each person will get 1 kg 600 g of sugar.

15. Weight of 6 glass pots = 7 kg 134 g
∴ Weight of 1 glass pot = 7 kg 134 g ÷ 6
$$= 7134 \text{ g} ÷ 6$$

$$= 1189 \text{ g}$$

$$= 1 \text{ kg 189 g}$$

$$= 1 \text{ kg 189 g}$$

$$= 1 \text{ kg 48}$$

12. Measures of Capacity

Exercise 12.2

12. Amount of paint used for doors = 6 L 275 mLAmount of paint used for windows = 3 L 250 mL

Weight of 1 glass pot is 1 kg 189 g.

Sudha used total of 9 L 525 mL paint.

13. Previously amount of petrol in Rajni's car = 3 L 370 mLAmount of petrol she filled more = 18 L 750 mL Total amount of petrol now in the car = $\begin{bmatrix} 1 & 1 \\ 3 & 1 & 370 \text{ mL} \\ + & 18 & 1 & 750 \text{ mL} \\ \hline 22 & 1 & 120 \text{ mL} \end{bmatrix}$

Now there is 22 L 120 mL petrol in Rajni's car.

14. Amount of milk Renu bought from one dairy = 5 L 550 mL Amount of milk Renu bought from another dairy = 8 L 250 mL

Total amount of milk she bought = 5 L 550 mL + 8 L 250 mL13 L 800 mL

Renu bought 13 L 800 mL of milk from both dairies.

15. Oil in first tin = 13 L 350 mL

Amount of oil in another tin more than first tin = 1 L 750 mL

1 1

Total amount of oil in the second tin =13 L 350 mL $\,$

+ 1 L 750 mL

15 L 100 mL

There is 15 L 100 mL oil in another tin.

Exercise 12.3

12.

Total capacity of bucket = 16 L

Amount of water poured in it = 12 L 450 mL

5 9

More amount of water required to fill the bucket = 16 L 000 mL - 12 L 450 mL

3 L 550mL

3 L 550 mL more water is required to fill the bucket.

13. Total amount of paint Raja bought = 10L

Amount of paint used for doors = 4 L 250 mL

99

Left paint =10 L 000 mL

-4 L 250 mL

5 L 750 mL

Now paint used for windows = 2 L 350 mL

Net amount of paint left = 5 L 750 mL

– 2 L 350 mL

3 L400 mL

3 L 400 mL of paint was left with Raja.

14. Amount of milk in a vessel = 4 L 250 mLAmount of milk used to prepare tea = 1 L 375 mL

Amount of milk left =
$$4 L 2 5 0 mL$$

 $-1 L 3 7 5 mL$
2 L 8 7 5 mL

Thus, 2 L 875 mL of milk was left in the vessel.

15. Total petrol in a big container = 100 L

Amount of petrol sold in a day = 65 L 750 mL

Petrol left after selling =
$$100 L 000 mL$$

$$- 65 L 750 mL$$

$$34 L 250 mL$$

Petrol spilled = $500 \, \text{mL}$

Net amount of petrol left = 34 L 250 mL - 500 mL 33L 750 mL

33 L 750 mL of petrol was left in the container.

Exercise 12.4

10. Amount of diesel consumed by truck in one hour = 4 L 220 mL Amount of diesel consumed by truck in 12 hours

=
$$(4 L 220 mL) \times 12$$

= $4 L 220 mL$
 $\times 12$
 $\overline{8} \quad 440$
 $\underline{42} \quad 20 \times$
 $\overline{50L640 mL}$

Truck will consume 50 L 640 mL of diesel in 12 hours.

11. Amount of oil that one container can hold = 5 L375 mLAmount of oil that 4 containers can hold = $(5 L375 mL) \times 4$

$$\begin{array}{c|c}
1 & 3 & 2 \\
\hline
1 & 3 & 2 \\
\hline
5 & L & 3 & 7 & 5 & mL \\
\times & 4 \\
\hline
21 & L & 500 & mL
\end{array}$$

4 such containers can hold 21 L 500 mL oil in them.

12. In one hour stove consumed petrol = 265 mLIn 8 hours stove will consume petrol = $(265 \text{ mL}) \times 8$

Total of 2 L 120 mL of petrol will be consumed in 8 hours.

Exercise 12.5

10. Total amount of oil = 5L

$$= 5 \times 1000 \text{ mL}$$

$$= 5000 \text{ mL}$$
Amount of oil which Alka put in her car

$$= \text{ one quarter of 5 L}$$

$$= \frac{1}{4} \text{th of } 5000 \text{ mL}$$

$$= (5000 \text{ mL}) \div 4$$

$$= 1250 \text{ mL}$$

$$= 1 \text{ L } 250 \text{ mL}$$

Alka put 1 L 250 mL of oil in her car.

11. Total amount of medicine =
$$13 L 464 mL$$

= $13 \times 1000 mL + 464 mL$
= $13000 mL + 464 mL$
= $13464 mL$
Number of bottles in which it is to be packed = 9
Amount of medicine in each bottle = $(13464 mL) \div 9$
= $1496 mL$
= 1 L 496 mL

In each bottle there will be 1 L 496 mL of medicine.

Total amount of milk =
$$5 L 300 \text{ mL}$$

= $5 \times 1000 \text{ mL} + 300 \text{ mL}$
= $5000 \text{ mL} + 300 \text{ mL}$
= 5300 mL
Number of persons it is to be divided = 4
Each person will get = $5300 \text{ mL} \div 4$
= 1325 mL
= $12\sqrt{10}$
Each person will get = $5300 \text{ mL} \div 4$
= 1325 mL
= $12\sqrt{10}$

Each person will get 1 L 325 mL of milk.

13. Total amount of Cola in one bottle =
$$3 L$$
 $= 3 \times 1000 \text{ mL}$ $= 3000 \text{ mL}$ Number of children in which it is shared = 8 Each child will get = $(3000 \text{ mL}) \div 8$ $= 375 \text{ mL}$ Each child will get 375 mL of Cola.

Let's Recall

2. 1 L = 1000 mL

Number of packets of 250 mL from 1 liter of milk = $1000 \div 250$ = 4

Thus, number of packets is 4.

7.
$$1 L = 1000 \,\text{mL}$$

$$2 L = 2 \times 1000 \,\text{mL}$$

$$2 L = 2000 \,\text{mL}$$

Number of packets of 500 mL from 2 litre of milk = $2000 \div 500$ = **4**

Thus, the number of packets is 4.

Unit-VII : Geometry and Patterns13. Lines and Plane Figures

Exercise 13.6

1. Shape of Shikhar's field is rectangle of sides

= 300 m long and 100 m wide

To run right round its edge he covers its perimeter.

:. Perimeter or rectangular field

$$=300 \,\mathrm{m} + 300 \,\mathrm{m} + 100 \,\mathrm{m} + 100 \,\mathrm{m}$$

= 800 m

Shikhar will run 800 m.

2. Dimensions of playing field = 200 m, 180 m, 170 m and 210 m A teacher walks round its edges will walk along its perimeter.

Perimeter of field = 200 m + 180 m + 170 m + 210 m

= 760 m

In one round teacher will walk 760 m.

3. Each side of hexagon flower-bed = 8 cm For fencing we need to calculate its perimeter.

.. Perimeter of hexagon flower-bed

$$= 8 m + 8 m + 8 m + 8 m + 8 m + 8 m$$

= 48 m

48 m long fencing will be required for flower-bed.

4. Three sides of a triangle = 6 cm, 8 cm and 10 cm

Perimeter of a triangle = sum of all three sides
=
$$6 \text{ cm} + 8 \text{ cm} + 10 \text{ cm}$$

Perimeter of a triangle is 24 cm.

5. Each side of square $= 5 \, \text{m}$

Mona takes round of it along the walls *i.e.*, she covers the perimeter of square shaped classroom.

Perimeter of square = sum of all four sides

$$= 5 m + 5 m + 5 m + 5 m = 20 m$$

She walks total of 20 m.

6. Dimensions of carpet = $160 \, \text{cm}$ and $90 \, \text{cm}$

Perimeter of carpet which is of rectangular shape

$$= 160 \,\mathrm{cm} + 160 \,\mathrm{cm} + 90 \,\mathrm{cm} + 90 \,\mathrm{cm}$$

Perimeter of carpet is 500 cm.