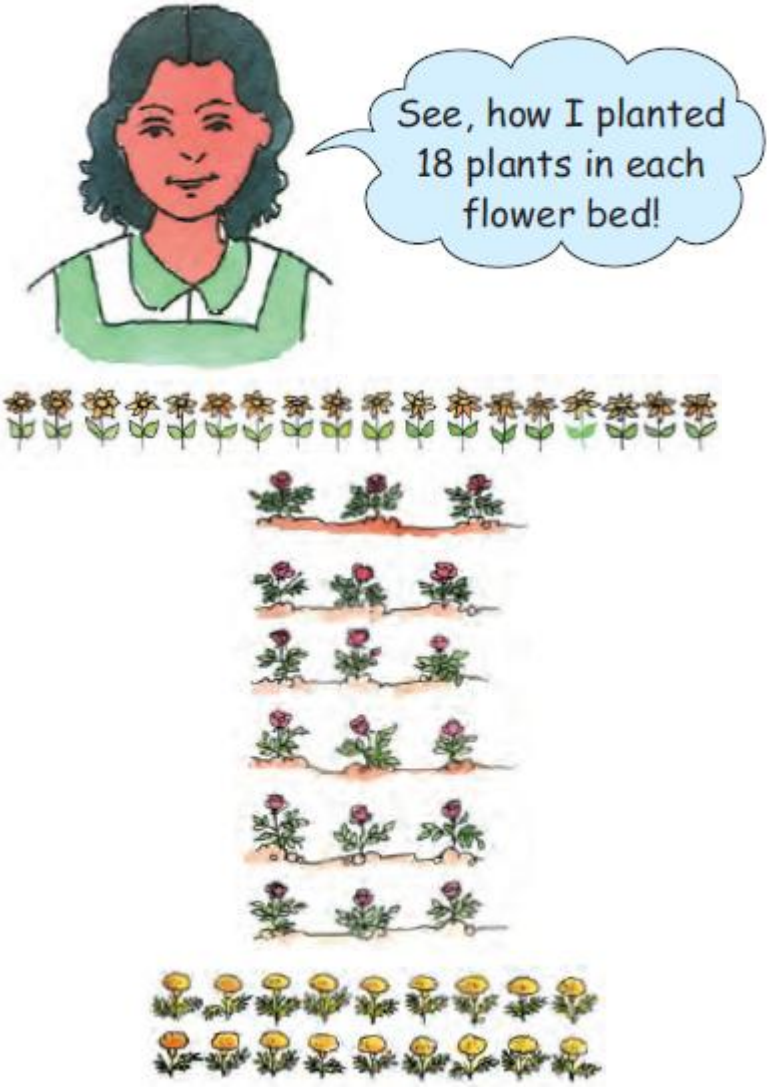
CHAPTER -11

Tables and Shares

2MARK QUESTIONS



Q1.What are the ways in which the sunflowers and marigolds are planted?

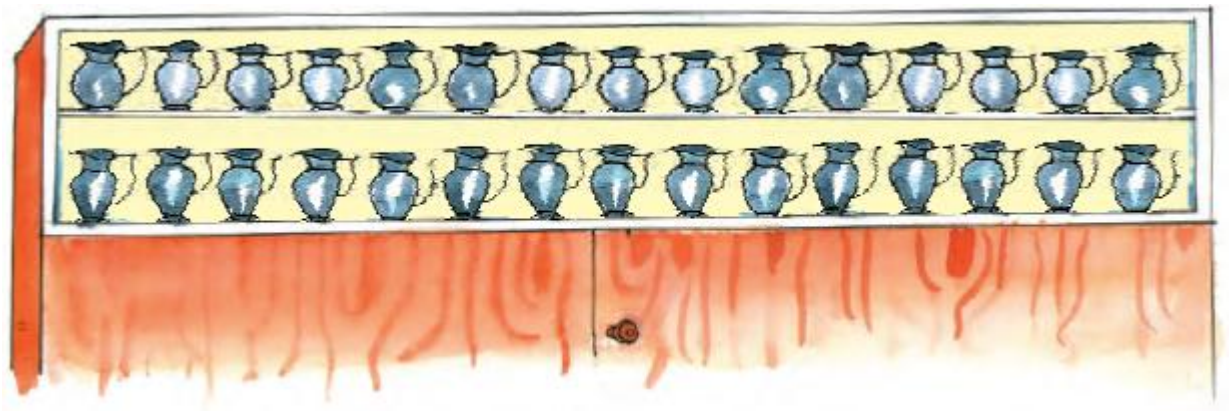
18 = _____ × _____ So there is ____ row with ___ plants.

18 = _____ × _____ So there are ___ rows with ____ plants each.

Answer:

18 = 1 × 18, so there is 1 row with 18 plants.

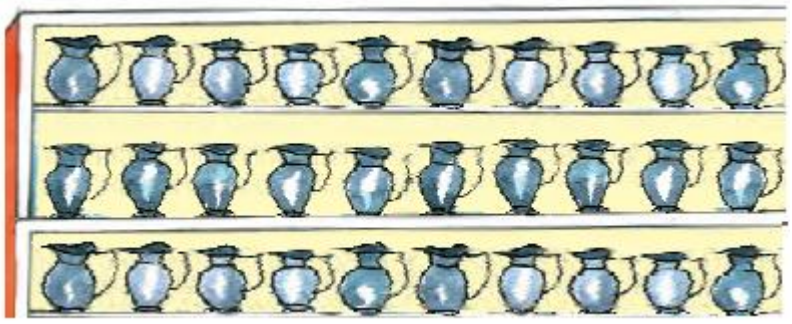
18 = 2 × 9, so there are 2 rows with 9 plants each.



Q2.Can you think of other ways to make a shelf to keep 30 jars?

Answer:

We can make a shelf in 3 rows in which each row has 10 jars. The shelf looks like the below figure.



The other ways to keep the jars are as follows

5 rows containing 6 jars in a row.

6 rows containing 5 jars in a row.

Q3.Draw a shelf. Show how many jars you will keep in each row. How many rows are there?

Answer:

A shelf containing 60 jars can be made as follows:

10 rows containing 6 jars in a row.

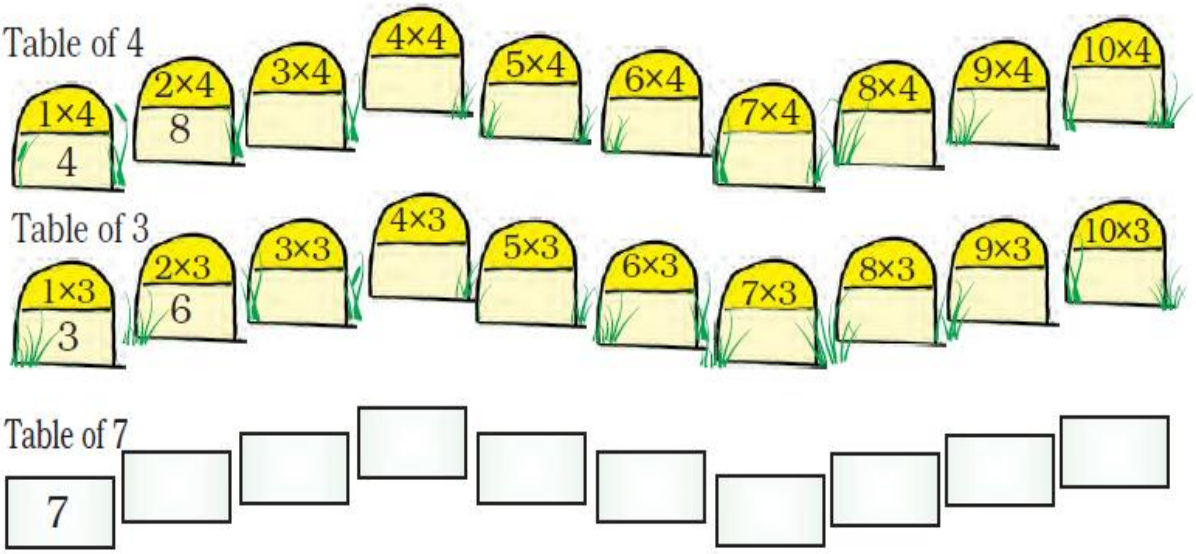
6 rows containing 10 jars in a row.

5 rows containing 12 jars in a row.

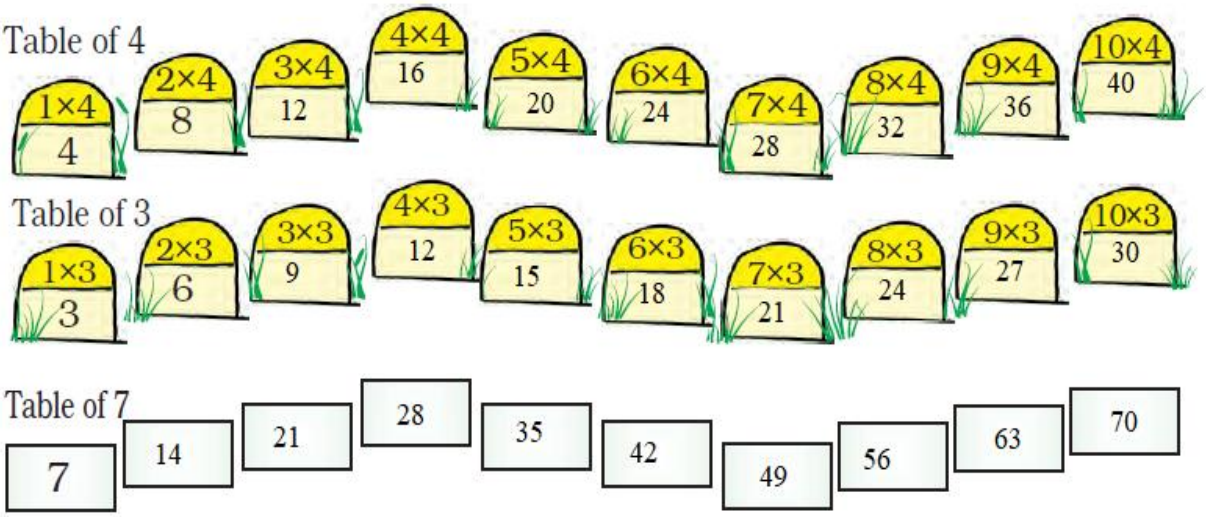
12 rows containing 5 jars in a row.

20 rows containing 3 jars in a row.

Q4.Help Bunty to make the table of 7, using tables of 4 and 3.



Answer:



Q5.Which two tables will you use for writing the table of 12?

Answer:

To write the table of 12, I will use the table of 4 and 8. The table of 4 is as follows:

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

4	8	12	16	20	24	28	32	36	40

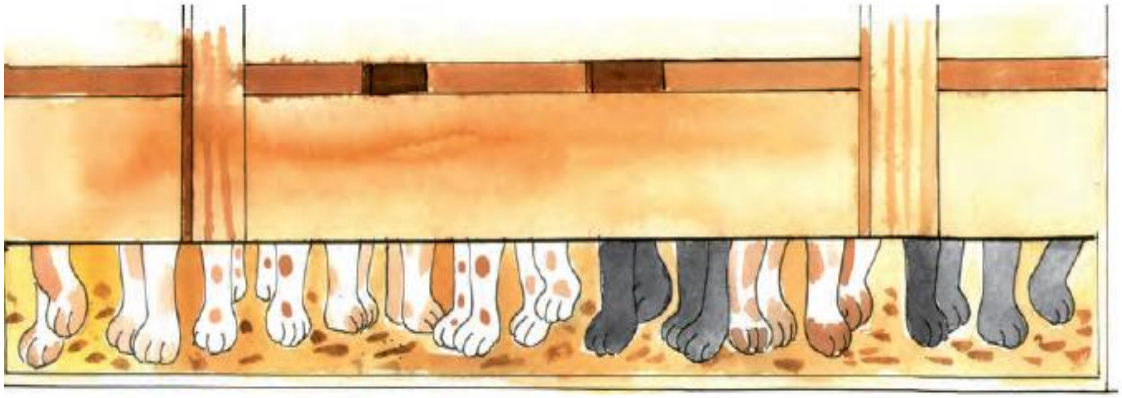
The table of 8 is as follows:

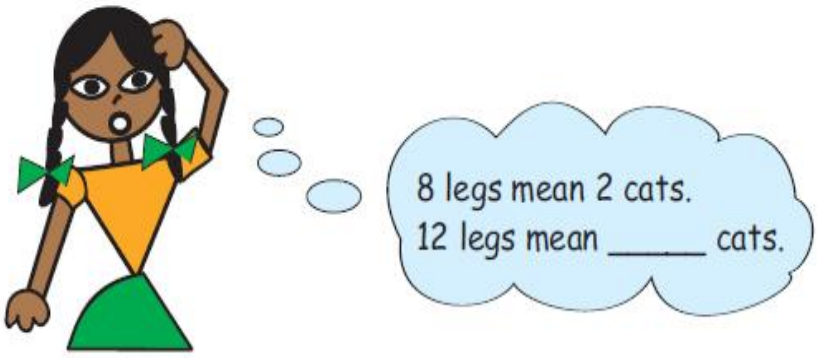
8 × 1	8 × 2	8 × 3	8 × 4	8 × 5	8 × 6	8 × 7	8 × 8	8 × 9	8 × 10
8	16	24	32	40	48	56	64	72	80

Now, the table of 12 become, as given below.

4 + 8	8 + 16	12 + 24	16 + 32	20 + 40
12	24	36	48	60

24 + 48	28 + 56	32 + 64	36 + 72	40 + 80
72	84	96	108	120





Q6.Some of Gayatri's cats were playing in a box. When she tried to count, all she could see were legs. She counted 28 legs. How many cats are there in the box?

How many legs?	4	8	12					
How many cats?	1	2						

So 28 legs mean _____ cats.

Answer:

We know a cat has 4 legs.

How many legs?	4	8	12	16	20	24	28	32
How many cats?	1	2	3	4	5	6	7	8

From the table, it is clear that 7 cats will have 28 legs.

Therefore, there are 7 cats in the box.

Q7.Billo has kept his chickens in a box. He counted 28 legs. How many chickens are there?

Answer:

We know that a chicken has 2 legs.

How many legs?	2	4	6	8	10	12	14	16	18	20	22	24	26	28
How many chickens?	1	2	3	4	5	6	7	8	9	10	11	12	13	14

From the table, we come to know that 14 chickens have 28 legs.

Hence, there are 14 chickens.

Q8.Leela has not gone to school for 21 days. For how many weeks was she away from school?

Answer:

We know there are 7 days in a week. Hence,

How many days?	7	14	21
How many weeks?	1	2	3

Here, 28 days means 3 weeks. Hence, for 3 weeks, she was away from school.

Q9.(a) Count the jumps he takes to reach 27.

So, he has taken 27 ÷ 3 = _____ jumps.

Answer:

So, he has taken 27 ÷ 3 = 9 jumps.

(b) He has taken _____ jump, if he is at 36.

Answer:

Jumps the frog took to cover 3 steps = 1

Number of jumps the frog took to cover 36 steps = 36 ÷ 3

= 12 jumps

Therefore, he has taken 12 jumps, if he is at 36.

(c) If he is at 42, he has taken _____ jumps.

Answer: Jumps the frog took to cover 3 steps = 1

Number of jumps taken by the frog to cover 42 steps = 42 ÷ 3

= 14 jumps

Hence, he has taken 14 jumps, if he is at 42.

Q10.Starting from 0, a rabbit jumps 5 steps at a time.

(a) In how many jumps does he reach 25?

Answer:

Jumps the rabbit took to cover 5 steps = 1

Number of jumps the rabbit took to cover 25 steps = 25 ÷ 5

= 5 jumps

Therefore, the rabbit reaches 25 in 5 jumps.

(b) He reaches _____ after taking 8 jumps.

Answer:

Number of steps the rabbit took to cover 1 jump = 5

Number of steps the rabbit took to cover 8 jumps = 5 × 8 = 40

Therefore, he reaches 40 after taking 8 jumps.

(c) He needs _____ jumps to reach 55.

Answer:

Jumps the rabbit took to cover 5 steps = 1

Number of jumps the rabbit took to cover 55 steps = 55 ÷ 5

= 11 jumps

Hence, he needs 11 jumps to reach 55.

5MARK QUESTIONS

Q11.1) 28 ÷ 2 =

Answer:

28 ÷ 2 = 14

∴ 28 ÷ 2 = 14

Q2) 56 ÷ 7 =

Answer:

56 ÷ 7 = 8

∴ 56 ÷ 7 = 8

Q3) 48 ÷ 4 =

Answer:

48 ÷ 4 = 12

∴ 48 ÷ 4 = 12

Q4) 66 ÷ 6 =

Answer:

66 ÷ 6 = 11

∴ 66 ÷ 6 = 11

Q5) 96 ÷ 8 =

Answer:

96 ÷ 8 = 12

∴ 96 ÷ 8 = 12

Q6) 110 ÷ 10 =

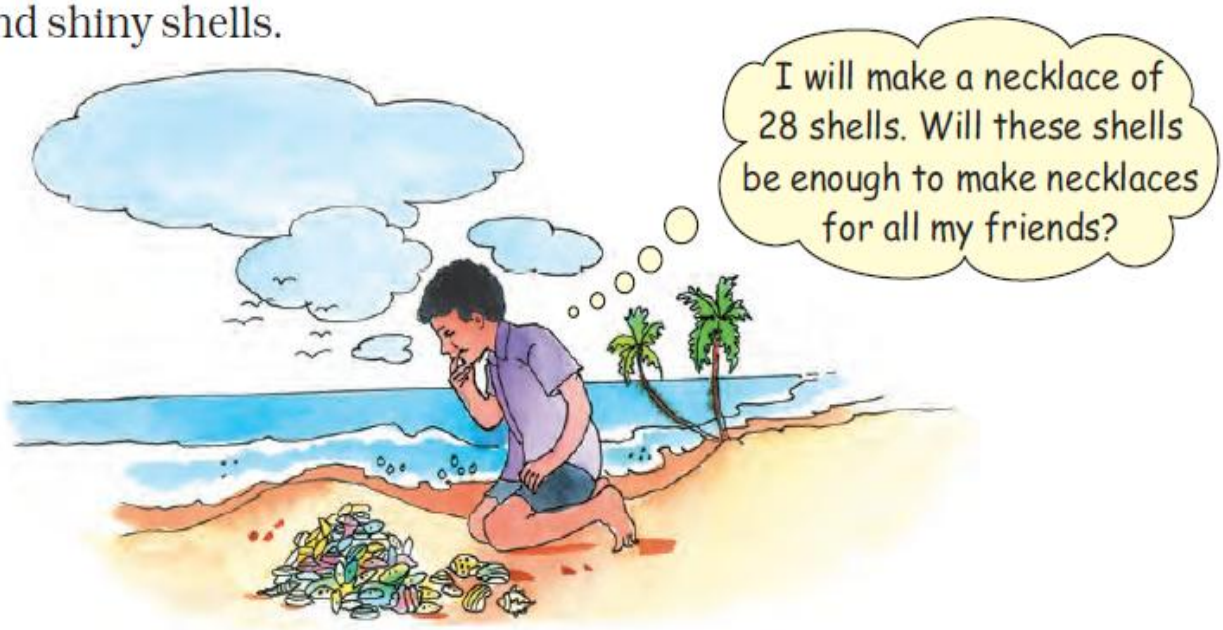
Answer:

110 ÷ 10 = 11

∴ 110 ÷ 10 = 11

Sea Shells

Dhruv lives near the sea. He thought of making necklaces for his three friends. He looked for sea-shells the whole day. He collected 112 sea-shells by evening. Now he had many different colourful and shiny shells.



Q7.(a) How many shells are left now?

Answer:

Number of shells used for the second necklace = 28

Number of shells left with Dhruv = 84 – 28

= 56

Therefore, Dhruv was left with 56 shells.

(b) Then he took shells for the third necklace.

So he was left with _____ shells.

Answer:

For the third necklace, he took 28 more shells.

Number of shells left with Dhruv = 56 – 28

= 28

So he was left with 28 shells.

(c) How many necklaces can Dhruv make from 112 shells?

Answer:

The number of necklaces that Dhruv can make from 112 shells = 112 ÷ 28

= 4

Hence, Dhruv can make 4 necklaces from 112 shells.

(d) Are the shells enough for making necklaces for all his friends?

Answer:

Yes, the number of shells was sufficient for making necklaces for all his friends. Dhruv was left with 28 shells after making 3 necklaces for his friends.

Q8.(a) Kannu made a necklace of 17 sea shells. How many such necklaces can be made using 100 sea shells?

Answer:

Total number of shells = 100

Sea shells required to make 1 necklace = 17 sea-shells

Hence, the number of shells left after making 1 necklace = 100 – 17

= 83

Shells left after making 2 necklaces = 83 – 17

= 66

Shells left after making 3 necklaces = 66 – 17

= 49

Shells left after making 4 necklaces = 49 – 17

= 32

Shells left after making 5 necklaces = 32 – 17

= 15

Thus, 15 shells were left after making 5 necklaces.

Therefore, 5 necklaces can be made by using 100 sea shells.

(b) One carton can hold 85 soap bars. Shally wants to pack 338 soap bars. How many cartons does she need to pack all of them?

Answer:

Total number of soap bar	Number of cartons	Number of soap bars required	Soap bars left
338	1	85	338 – 85 = 253
253	1 (2nd)	85	253 – 85 = 168
168	1 (3rd)	85	168 – 85 = 83
83	1 (4th)	85 (since only 83 are left)	

Total number of cartons = 4

Therefore, the total number of cartons required to pack all 338 soap bars is 4 cartons.

(c) Manpreet wants 1500 sacks of cement for making a house. A truck carries 250 sacks at a time. How many trips will the truck make?

A driver charges Rs 500 for a trip. How much will Manpreet pay the driver for all the trips?

Answer:

Number of sacks of cement Manpreet need for making a house = 1500

Sacks carried by truck in 1 trip = 250

So, sacks carried by truck in 2 trips = 250 × 2

= 500

Sacks carried by truck in 3 trips = 250 × 3

= 750

Sacks carried by truck in 4 trips = 250 × 4

= 1000

Sacks carried by truck in 5 trips = 250 × 5

= 1250

Sacks carried by truck in 6 trips = 250 × 6

= 1500

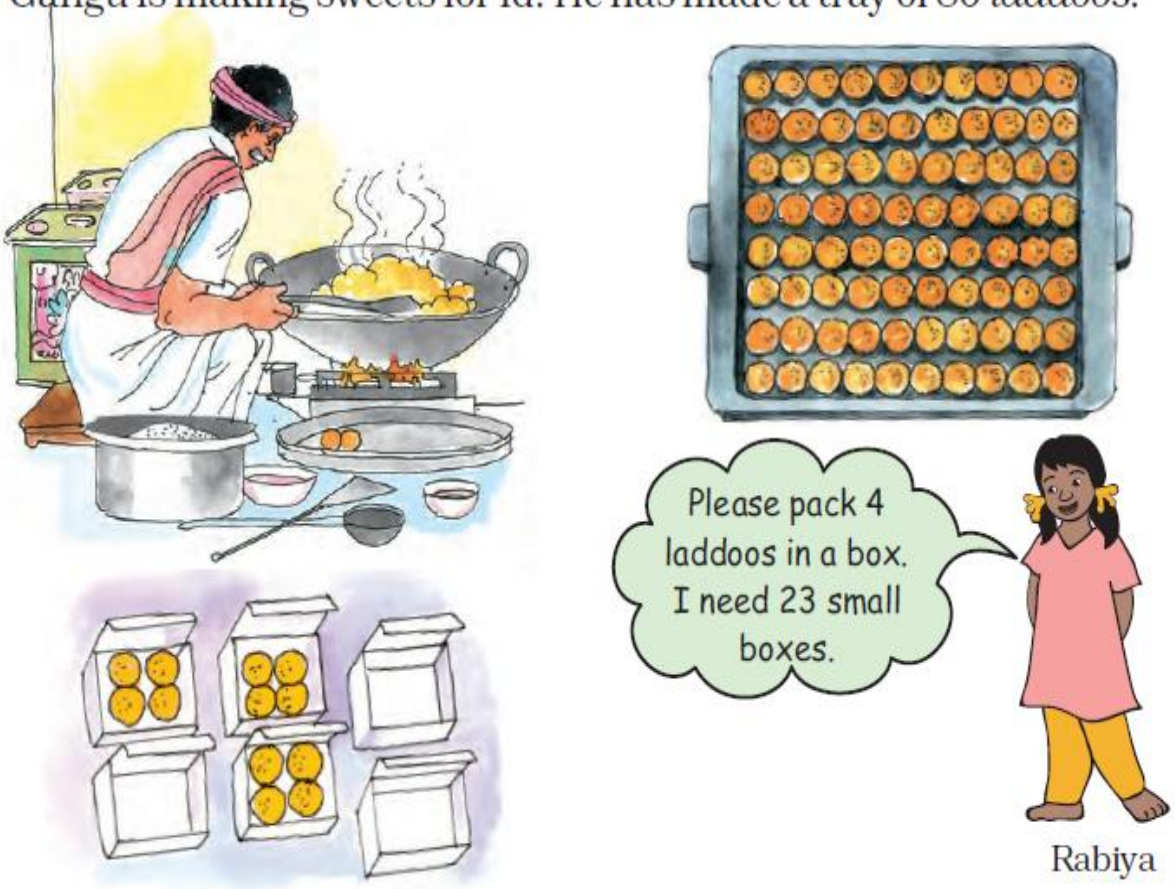
Hence, the number of trips made by the truck to carry 1500 sacks = 1500 / 250

= 6 trips

Therefore, a truck needs 6 trips to carry 1500 sacks of cement.

Gangu's Sweets

Gangu is making sweets for Id. He has made a tray of 80 *laddoos*.



Q9.(a) Are the sweets in the tray enough to pack 23 small boxes?

Answer:

Number of laddoos needed to pack 1 small box = 4

Number of laddoos needed to pack 23 small boxes = 4 × 23

= 92

Therefore, 80 laddoos are not sufficient to pack 23 small boxes.

(b) How many more sweets are needed?

Answer:

Number of laddoos required to pack 23 small boxes = 92

Number of laddoos available = 80

Number of more laddoos needed = 92 – 80

= 12 laddoos

Therefore, 12 more laddoos are required to pack 23 small boxes.

(c) Gangu also has a bigger box in which he packs 12 laddoos. How many boxes does he need to pack 60 laddoos?

Answer:

Number of boxes needed to pack 12 laddoos = 1

Number of boxes needed to pack 60 laddoos = 60 ÷ 12

= 5 boxes

Hence, 5 boxes are required to pack 60 laddoos.

Q9.Neelu brought 15 storybooks to her class. Today 45 students are present. How many children will need to share one book?

Answer:

Total number of students in a class = 45 children

Number of books Neelu brought to her class = 15 books

Number of children to share 1 book = 45 ÷ 15 = 3

Therefore, 3 children share one book.

Q10.A family of 8 people needs 60 kg of wheat for a month. How much wheat does this family need for a week?

Answer:

Number of days in a month = 30

Number of days in a week = 7

Need of wheat for 8 people in a month or 30 days = 60 kg

Need of wheat for 8 people in a day = 60 ÷ 30

= 2 kg

Therefore, the need of weight for 8 people in a day = 2 kg

So, the need of wheat for 8 people for 7 days = 2 kg × 7

= 14 kg

Multiple-Choice Questions (MCQs):

Q1.What does the term "tables" usually refer to in the context of mathematics?

A) Furniture

B) Multiplication charts

C) Data charts

D) Dining tables

Answer: B) Multiplication charts

Q2.If a group of friends decides to divide a pizza equally among themselves, what concept are they using?

A) Tables

B) Fractions

C) Addition

D) Subtraction

Answer: B) Fractions

Q3.What is the result of multiplying 7 by 8?

A) 14

B) 56

C) 64

D) 72

Answer: C) 64

Q4.If you have a group of 12 items and you want to share them equally among 3 people, how many does each person get?

A) 2

B) 3

C) 4

D) 6

Answer: C) 4

Q5.What operation is associated with finding out how many times one number is contained within another?

A) Multiplication

B) Addition

C) Division

D) Subtraction

Answer: C) Division

Fill in the Blanks:

Q1.Tables help us understand the concept of _____.

Answer: multiplication

Q2.If you divide a whole into four equal parts, each part is called a _____.

Answer: quarter

Q3.The process of finding out the total of two or more numbers is called _____.

Answer: addition

Q4.A fraction with the numerator equal to the denominator is called a _____.

Answer: whole

Q5.When you share something equally, you are distributing it in _____.

Answer: shares