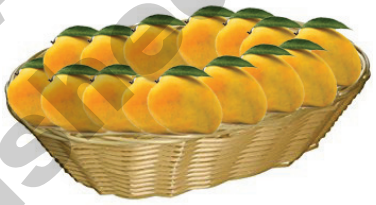
W8C3L1

Lesson-8 Division

Let us divide

Kon, Seuti, Rafiq, Joonmili and Lakshmi brought 15 mangoes from the garden and shared among themselves. They first shared 1 mango each among themselves.10 mangoes were left. They again shared 1 more mango each among themselves. 5 mangoes were left. Now they shared the remaining 5 mangoes among themselves after which no mangoes were left. After sharing 15 mangoes in this way each of them got 3 mangoes.

Let us see how Kon, Seuti, Rafiq, Joonmili and Lakshmi shared 15 mangoes among themselves?



First time : After sharing 1 mango each, the number of mangoes left is 15-5 = 10

Second time : After sharing 1 more mango each, the number of mangoes left is 10-5 = 5

Third time : After sharing 1 more mango each again, the number of mangoes left is 5-5 = 0

We have seen that if 15 mangoes are divided among 5 children then each child will get 3 mangoes each 15÷3 = 5

Find out

- How many mangoes were left after sharing the mangoes for the first time?
- How many mangoes were left after sharing the mangoes for the second time?
- After sharing how many times no mangoes were left?
- After sharing 15 mangoes among 5 of them, how many mangoes did each of them get?

Do yourself

Divide 18 mangoes among

(i) 6 children (ii) 3 children (iii) 2children

Instruction to the teacher : Teachers will help the students to divide various things into different groups using concrete objects.

Division by Repeated Subtraction

Let us see how many times we can take from a collection of 20 objects if we take 5 objects at a time.

20÷5 = ?

20
-5 (i)
15
-5 (ii)
10
-5 (iii)
5
-5 (iv)
0

Let us understand

From a collection of 20 objects,we take 5 objects 4 times. After this no objects will be left. That means there are 4 groups of 5 objects in 20. We can also write in this way 20÷5 = 4

25 ÷ 5 = ☐

25
-5 (i)
20
-5 (ii)
15
-5 [iii)
10
-5 (iv)
5
-5 (v)
0

Hence 25 ÷ 5 = ☐

24 ÷ 6 = ☐

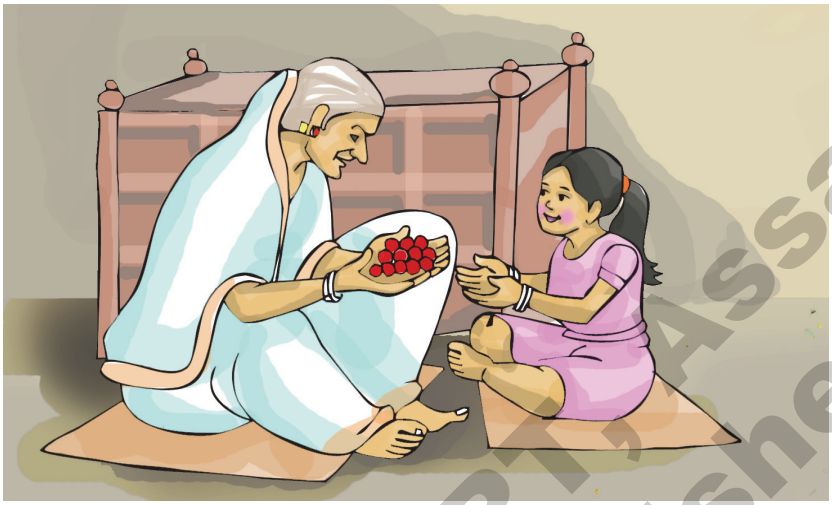
18÷6 = ☐

30÷5= ☐

50÷10= ☐

Grandmother's Beads

Tagar's grandmother took out 12 beads from the chest and gave them to her. She asked Tagar to make necklaces with 4 beads each. Let us see how many necklaces did Tagar make.



First Necklace  Number of beads left 12-4=8

Second Necklace  Number of beads left 8-4=4

Third Necklace  Number of beads left 4-4=0

Tagar made 3 necklaces with 12 beads

That means 4 beads were subtracted 3times from 12 beads
We can also write it this way 12÷4=3

If Tagar takes 3 beads each from 12beads to make necklaces, then how many necklaces can she make?

First Necklace 

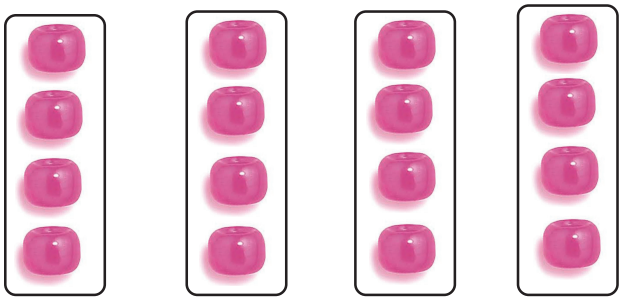
Second Necklace 

Third Necklace 

Fourth Necklace 

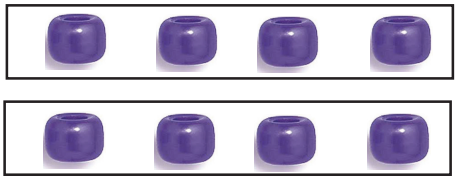
Hence 12÷3 = 4

✦ How many necklaces can be made with 4 beads from 16 beads?



That means
16 ÷ 4 = ☐

✦ How many necklaces can be made with 4 beads from 8 beads?

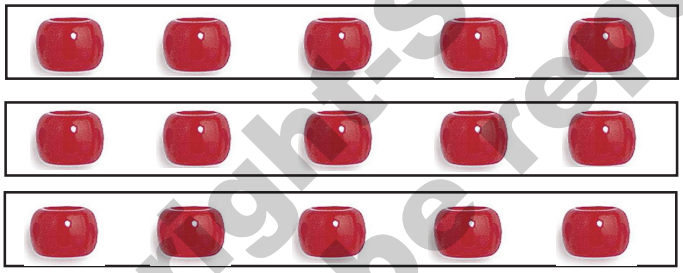


That means
8 ÷ 4 = ☐

✦ How many necklaces can be made with 2 beads from 10 beads?

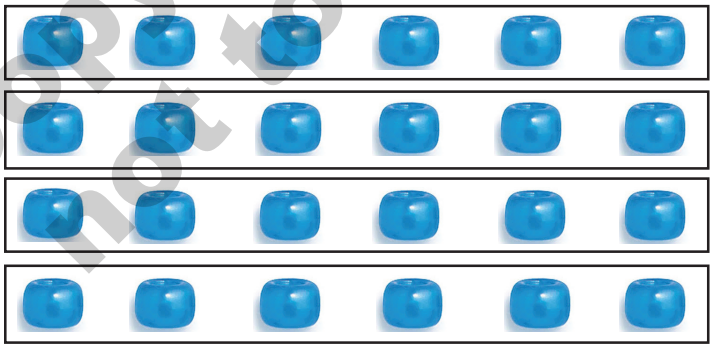
That means
10 ÷ 2 = ☐

✦ How many necklaces can be made with 5 beads from 15 beads?



That means
15 ÷ 5 = ☐

✦ How many necklaces can be made with 6 beads from 24 beads?



That means
24 ÷ 6 = ☐

Instruction to the teacher : *Teacher will divide the class into groups and give each group about 2,3,4,6,12 seeds, sticks, leaves etc to do the task of division.*

Look at the picture and write

- How many *pithas* are there ?.........
  If we divide pithas among Karabi and Kamal, how many *pithas* will each of them get ?.......
  How many *pithas* will remain?.......

- How many children are waiting to sit on the boat ? ....
  How many boats are there? ....
  If 4 children can sit on one boat how many children can sit ? ....
  How many children will not be able to sit ? ....

Let us divide using multiplication tables

(i) $16 \div 4$

Let us see how many 4's are there in 16 with the help of multiplication table.

There are 4 times 4 in 16.

We can write the process of dividing in the following way

$4\times1=4$
$4\times2=8$
$4\times3=12$
$4\times4=16$

```
             4 →Quotient
Divisor →4 ) 16→Dividend
            -16
             0→Remainder
```

(ii) $26 \div 5$

Let us see how many 5's are there in 26 with the help of multiplication table.

There are 5 times 5 in 26.

After dividing 26 for 5 times the remainder is 1

$5\times1=5$
$5\times2=10$
$5\times3=15$
$5\times4=20$
$5\times5=25$

```
            5  →Quotient
Dividend→5 ) 26 →Divisor
            -25
             1 →Remainder
```

Divide using $\overline{)\ \ }$ symbol

36÷3

$$3\,\overline{)\,36}$$ quotient 1; 3; 0

$$3\,\overline{)\,36}$$ quotient 12; - 3↓; 6; -6

Quotient =12, Remainder = 0

37÷4

73÷8

57÷6

67÷10

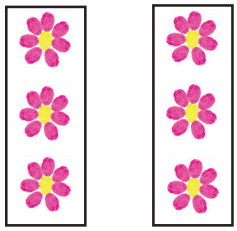
19÷9

36÷7

43÷5

Let us look at the relation between division and multiplication

Multiplication fact

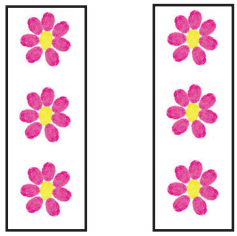


There are 3 flowers 2 times

2 times 3 = 6

$2 \times 3 = 6$

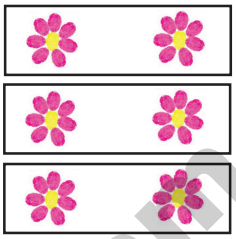
Division fact



6 flowers divided into 2 equal groups gives 3 flowers in each

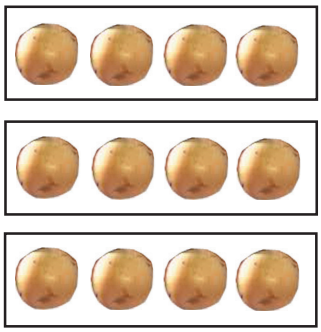
$6 \div 2 = 3$

Division fact



6 flowers divided into 3 equal groups gives 2 flowers in each

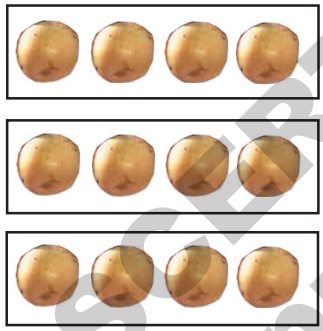
$6 \div 3 = 2$



There are 4 *Letekus* 3 times

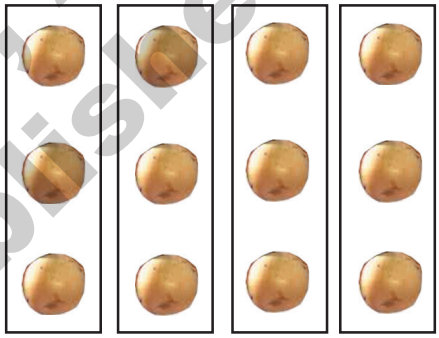
3 times 4 = 12

$3 \times 4 = 12$



12 *letekus* divided into 3 equal groups gives 4 *letekus* in each

$12 \div 3 = 4$



12 *letekus* divided into 4 equal groups gives 3 *letekus* in each

$12 \div 4 = 3$

Do Yourself

There are 5 flowers 3 times .....

15 flowers divided into 3 equal groups gives 5 flowers in each .....

15 flowers divided into 5 equal groups gives 3 flowers in each .....

Find out the multiplication and division facts

$18 \times 3 = 54$ $54 \div 18 = 3$ $54 \div 3 = 18$	$4 \times 5 = 20$	$6 \times 9 = 54$
$7 \times 8 = 56$	$9 \times 5 = 45$	$10 \times 7 = 70$

Fill up the blanks

(a) $2 \times 3 = 6$
$6 \div 2 = 3$
$6 \div 3 = 2$

(b) $3 \times 4 = ...$
$12 \div 3 = ...$
$12 \div 4 = ...$

(c) $3 \times .... = 21$
$21 \div 7 = ...$
$21 \div .... = 7$

(d) $6 \times 5 = ...$
$30 \div 5 = ...$
$.... \div 6 = 5$

((e) $.... \times 6 = 42$
$... \div 6 = 7$
$42 \div 7 = ...$

((f) $4 \times .... = 72$
$... \div 4 = ...$
$72 \div ... = 4$

Solve the problems

(a) If 30 chocolates are kept in 3 boxes then how many chocolates will each box contain?

(b) 16 saplings of rose plant are to be planted in 4 rows. How many saplings can be planted in each row?

(c) If one student is given 2 biscuits along with tea then among how many students can 50 biscuits be divided?

(d) One week has 7 days. How many weeks are there in 35 days?

(e) Cost of 10 numbers of sweetmeat is Rs 100. What is the cost of 1sweet-meat?

(f) Anupam had 10 balloons with him. He gave 2 balloons each to his friends. How many friends did he have?

Solve the riddles

(a) If 20 plums are divided among 5 boys. How many plums will each boy get?

(b) There are 6 coaches and 30 students. For each coach to have equal number of students. How many students will sit in one coach?

(c) There are 24 wheels and each rickshaw needs 3 wheels. If all the wheels are fitted, how many rickshaws will there be in all?

Try

The product of 2 numbers is 375. If one number is 25, what is the other number?

Look at the table below and find the answers to the questions given below

1	6	11	16	21	26	31	36	41	46
2	7	12	17	22	27	32	37	42	47
3	8	13	18	23	28	33	38	43	48
4	9	14	19	24	29	34	39	44	49
5	10	15	20	25	30	35	40	45	50

(a) Numbers divisible by 5

10,15,.....

(b) Numbers divisible by 6

.....

(c) Numbers divisible by 7

.....

(d) Numbers divisible by 8

.....

(e) Numbers divisible by 9

.....

(f) Numbers divisible by 10

.....

Solve the problems

Rangpi plucked 81 oranges from the orchard and put them in 9 baskets equally. How many oranges are there in each basket?

28 olives were shared equally among few girls. If each girl gets 4 olives then how many girls were there?

2 boys bought a book from their friend. If the cost of the book is Rs 140 then how much money does each boy has to pay?

If 4 ribbons cost Rs 60 then what is the cost of 1 ribbon? What will be cost of 6 such ribbons?

There are 35 tyres in a shop. One car needs 4 tyres. How many tyres can be fitted in how many cars and how many tyres will be left?

Kartik has 60 photos. If he sticks 8 photos on one page of an album, how many pages will be covered completely and how many photos will remain?

If 64 children are divided into 8 groups , how many groups will be there?

If 4 packets contain 100 balloons then how many balloons are there in 1 packet? How many packets will contains 300 balloons?

The cost of 3 coconuts is Rs 96. What is the cost of 1 coconut? How many coconuts can be purchased with Rs 160?

Mallika's uncle brought 14 bamboos to fence the garden on all four sides. If one side needs 3 bamboos, how many bamboos will be needed to fence four sides of the garden and how many bamboos will be left?

If 21 balloons are shared among 6 children then how many balloons will each child get and how many will be left?