

Chapter- 10

Division

STUDY NOTES

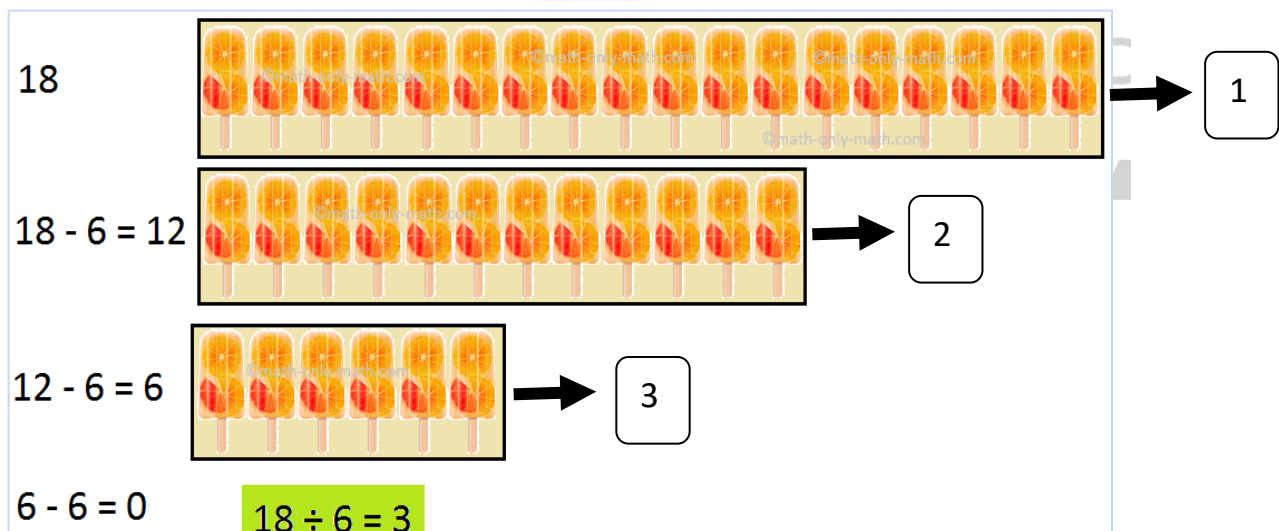
Learners will be able to get knowledge about:

- Division as Repeated Subtraction
- Division on a Number Line
- Simple Division
- Division word problems

The division is Repeated Subtraction:

Repeated Subtraction: Repeated Subtraction is a method that subtracts the equal number of items from a group, also known as division.

Example: Nisha has 18 ice creams. She distributes equally among 6 friends. Let us see how many ice creams each friend will get?

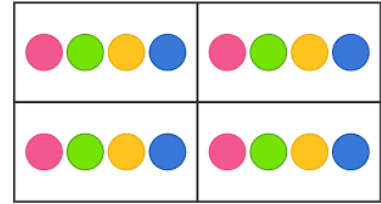


Each friend gets 3 ice creams.

Division facts:

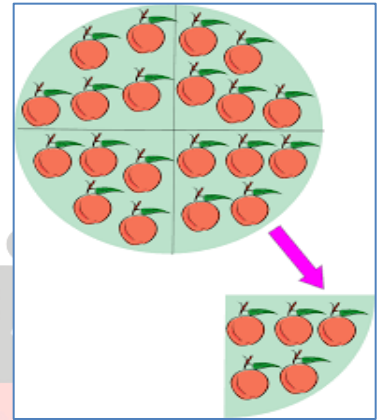
➤ 4 children share 16 marbles. The facts are:

1. $16 \div 4 = 4$ marbles
2. Each child gets 4 marbles
3. $4 \times 4 = 16$



➤ 20 apples distributed among 4 girls. The facts are:

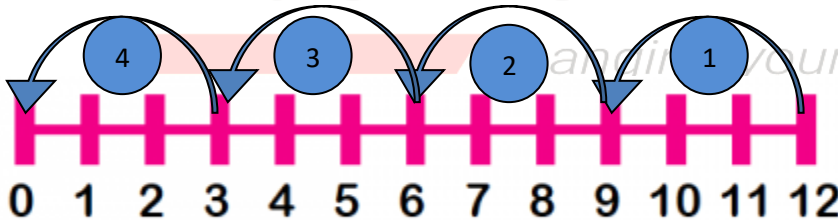
1. $20 \div 4 = 5$
2. $5 \times 4 = 20$
3. Each girl gets 5 apples



Division on a number line:

Example:

a. Divide 12 by 3



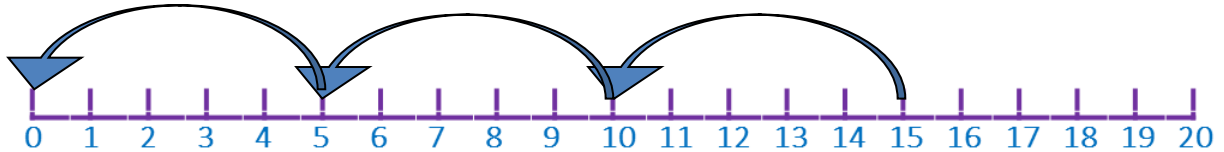
Start from 12 and jump 3 places backwards, till you reach 0

Now count how many times you have jumped back. Answer is **4** times.

So, $12 \div 3 = 4$

Division on Number Line with more examples:

a. Divide 15 by 5



Repeated Subtraction: $15 - 5 = 10$, $10 - 5 = 5$, $5 - 5 = 0$

$15 \div 5 = 3$

Parts of Division:

Parts of a Division

11	\div	2	$=$	5	R	1
dividend		divisor		quotient		remainder

	5	← quotient
divisor →	$2 \overline{)11}$	← dividend
	<u>10</u>	
	1	← remainder

Simple Division

$10 \div 2 = 5$

$14 \div 7 = 2$

$16 \div 2 = 8$

$32 \div 8 = 4$

$18 \div 6 = 3$

$18 \div 2 = 9$

$20 \div 2 = 10$

$15 \div 3 = 5$

$32 \div 4 = 8$

$18 \div 3 = 6$

Fun Activity

SPRING DIVISION

$20 \div 5 = \square$
 $44 \div 2 = \square$
 $64 \div 8 = \square$
 $36 \div 6 = \square$
 $40 \div 8 = \square$
 $28 \div 4 = \square$
 $27 \div 3 = \square$

KEY

L = 22
 O = 8
 E = 5
 W = 6
 F = 4
 R = 7
 S = 9

What grows in spring?

4 22 8 6 5 7 9

Word Problem:

1. Gopi has 30 chocolates. He distributes equally among 5 friends. How many chocolates does each friend get?

$$30 \div 5 = 6$$

So, each friend gets 6 chocolates.

2. Maya puts 40 toffees in 8 boxes. How many toffees are there in each box?

$$40 \div 8 = 5$$

So, there are 5 toffees in each box.

Points to know about Division:

Any number divided by 0 is impossible

(Meaning less)

When we divide 0 by any number, we get 0 as answer

When we divide a number by 1 the answer is the number itself

Key words for Division:



EDUCATIONAL GROUP
Changing your Tomorrow

MIND MAP

