Chapter- 7

Division

STUDY NOTES

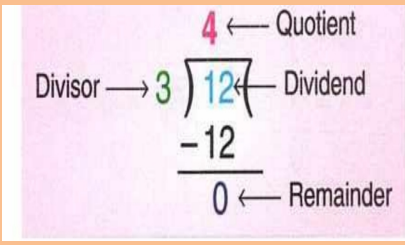
LEARNING OBJECTIVE:

- Division is repeated Subtraction
- Properties of Division
- Let us revise
- Long Division Method
- Word Problems

Division is repeated Subtraction

$12 \div 3 = 4$

Here, 12 is the **Dividend**.
3 is the **Divisor**.
4 is the **Quotient**.
0 is the **Remainder**.



- The number which is being divided is the **dividend**.
- The number by which the dividend is divided is called the **divisor**.
- The answer obtained after division is called the **quotient.**

Properties of Division

When any number is divided by itself,the quotient is 1.

$6 \div 6 = 1$

When any number is divided by 1,the quotient is the number itself.

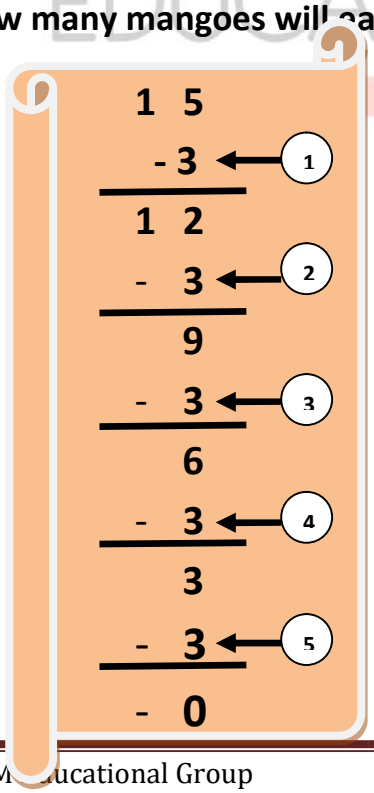
$8 \div 1 = 8$

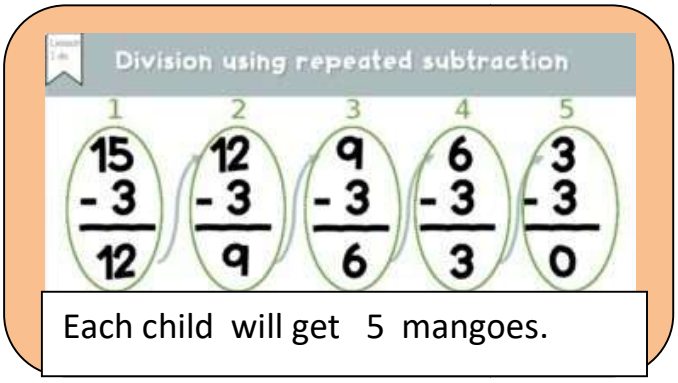
A number can not be divided by 0.

$4 \div 0$ is not possible

Let us revise

1.A basket has 15 mangoes which are to be shared equally among 3 children. How many mangoes will each child will get?

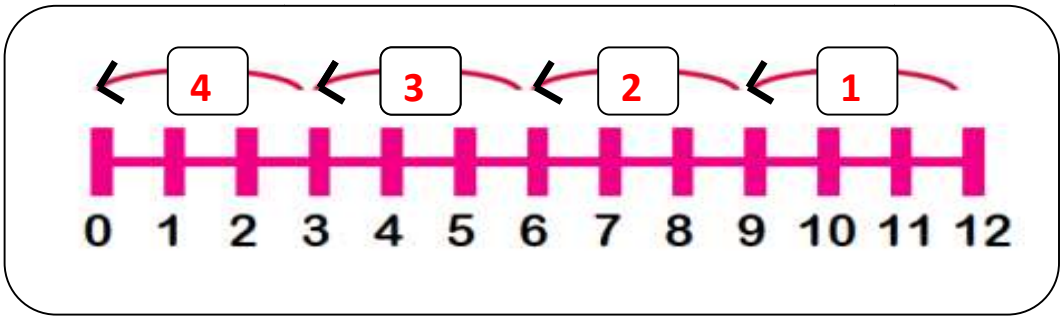




Each child will get 5 mangoes.

2.Divide **12 by 3** using a number line.

12 ÷ 3= 4



3.Fill in the blanks.

12 ÷ 6 = 2

2 × 6 = 12

12 ÷ 6 = 2

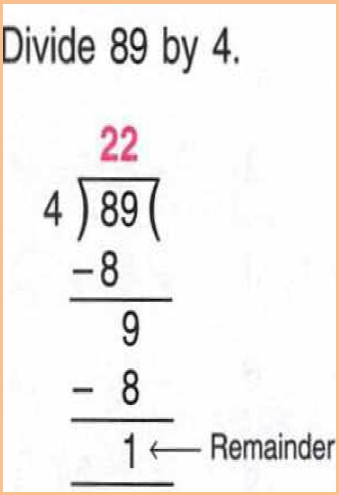
2 × 6 = 12

Long Division Method

Divide 96 by 3.

$$\begin{array}{r} 32 \\ 3\overline{)96} \\ -9 \\ \hline 6 \\ -6 \\ \hline 0 \end{array}$$

Method:**Start with the extreme left digit.Divide the tens by 3. 9 tens ÷ 3 = 3 tens.(3×3=9)**
Write 3 above 9 in the tens' place and subtract the product from the tens digit. 9 - (3×3)= 9 -9=0
Write the difference and copy the ones digit 6 below ones' place.
Divide the ones by3.6 ones÷3=2 ones.(3×2=6)
Write 2 above 6 in the ones' place and subtract the product from the ones digit.
6-(3×2)=6-6=0



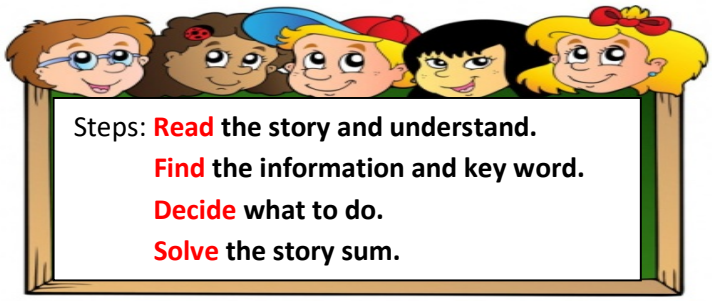
Method:**Divide the tens by 4. 4 × 2 = 8,*i,*e 8 tens ÷ 4 = 2 tens. Write 2 above 8 in the tens' place and subtract the product from the tens digit. 8 - 4 (4×2) = 8 – 8 = 0**

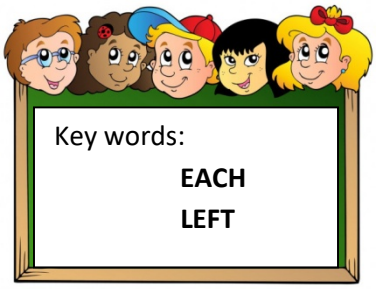
Write the difference and copy the ones digit below ones' place.

Divide the ones by 4.Now,4 × 2 = 8 and 4×3=12. 4×3=12.Since 12 >9, we take 4×2=8. 9 ones ÷4=2 ones.Write 2 above 9 in the ones' place and subtract the product from the ones digit. 9-(4×2)=9-8=1,Here 1 is called the remainder.

Word Problems

To solve the word problems, following points are to be kept in mind.





Divide 48 sweets equally among 6 children.

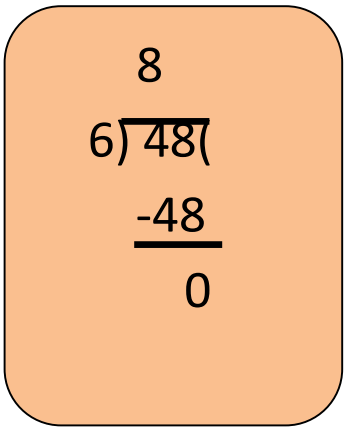
Solution:

Number of sweets =48

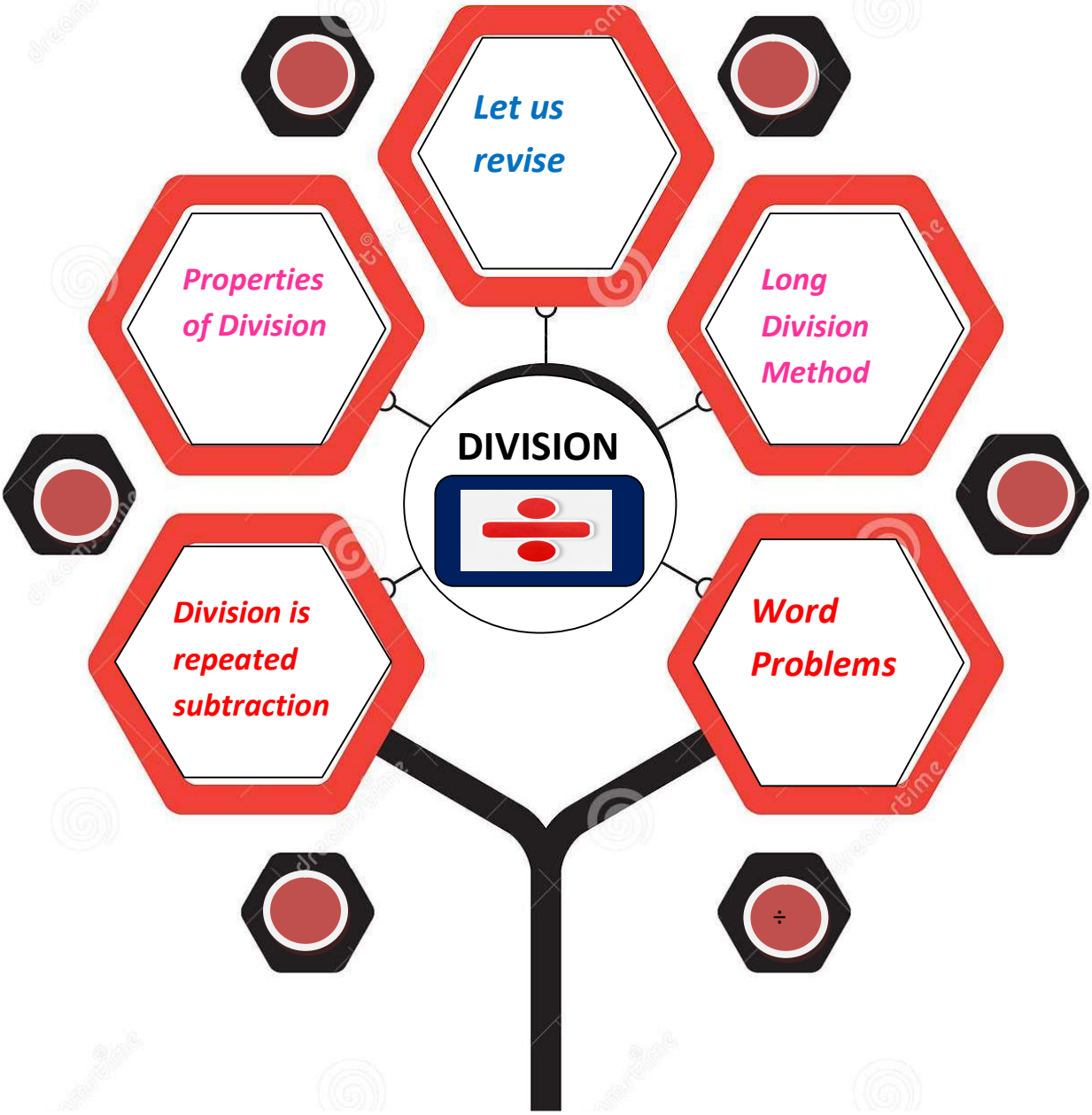
Number of children=6

Number of sweets of each child=48÷6=8

Ans.Each child will get 8 sweets.



MIND MAP


Let us revise
Properties of Division
Long Division Method
DIVISION
Division is repeated subtraction
Word Problems