

Division is the DIVIDING of something into groups or parts. This is related to because multiplication is the repeated addition of groups or parts. Division and multiplication are the inverse of each other.

Let's take a look at what 3×4 looks like

It can either look like 3 groups of 4:



Billy had 3 boxes of candy. Each box had 4 chocolates in it. How many chocolates did he have total? *He had 12 chocolates.*

OR it could be 4 groups of 3:



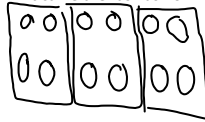
Mandy had 4 bags of apples. Each bag had 3 apples in it. How many apples did she have total? *She had 12 apples.*

The answer to a multiplication problem is called the product. The product of 3 and 4 is 12. The answer to both 3 groups of 4, or 4 groups of 3, is 12.

Division asks us to divide something up into groups or groups of a certain size

Let's take a look at what $12 \div 4$ looks like.

It can either ask us how many groups of size 4 are inside of 12:

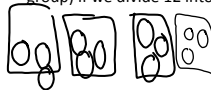


Billy had 12 chocolates that he put into boxes. He put 4 chocolates in each box. How many boxes did he fill?

He filled 3 boxes.

In this case, our answer is how many groups we can make (How many boxes)

It can also ask us how many will be in each group (the size of each group) if we divide 12 into 4 even groups.



Billy had 12 chocolates. He split them evenly among 4 boxes. How many chocolates are in each box?

There are 3 chocolates in each box

In this case, our answer is the size of each group (how many chocolates are in each box)

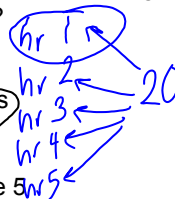
Mr. Potter told Shawn 20 times to get out his whiteboard. He did this over 5 hours. If he told Shawn the same amount of times each hour, how many times did he tell Shawn to get out his whiteboard in an hour?

WHICH IS IT?

Divide 20 into 5 even groups

OR

Divide 20 into groups of size 5



Shawn kept crying about being told to get out his whiteboard. He shed a total of 100 tears. If he shed 25 tears per hour, how many hours did Shawn cry?

WHICH IS IT?

Divide 100 into 25 even groups

OR

Divide 100 into groups of size 25

