



Relationship between multiplication and division



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## All about me



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## Introduction

Multiplication and division are inverse properties, meaning that multiplying two numbers to get a product will be the same as dividing that product by one of the numbers to get the other number.

Example:  $3 \times 4 = 12$ ... so that means that  $12 \div 3 = 4$ 











If 3 x 4 = 12, then 4 x 3 = 12 because it uses the same numbers, just in a different order.

It applies to division as well, so if  $12 \div 3 = 4$ , then  $12 \div 4 = 3$ 

Example: If  $2 \times 1 = 18$ , then  $18 \div 1 = 9$ 







### How it works?



https://www.youtube.com/watch?v=fc2zif8oKt8





Math Facts Practice Worksheet















Math Facts Practice Worksheet















Math Facts Practice Worksheet















Math Facts Practice Worksheet















Math Facts Practice Worksheet















Math Facts Practice Worksheet















Math Facts Practice Worksheet















Math Facts Practice Worksheet











# More Properties

 $4 \times 5 \times 2$  can be found by  $4 \times 5 = 20$ , then  $20 \times 2 = 40$ And can also be found by  $5 \times 2 = 10$ , then  $10 \times 4 = 40$ 

EXAMPLE: Find:  $2 \times 3 \times 5$  $2 \times 3 =$ , then x =







# More Properties

 $4 \times 5 \times 2$  can be found by  $4 \times 5 = 20$ , then  $20 \times 2 = 40$ And can also be found by  $5 \times 2 = 10$ , then  $10 \times 4 = 40$ 

### EXAMPLE: Find: $2 \times 3 \times 5$ $2 \times 3 = 6$ , then $6 \times 5 = 30$







## **YOUR TURN!**

#### The Inverse Relationship of Division

Match the division equation on the left with its universe multiplication equation on the right

12 ÷ 2 = 6	5 x 6 = 30
18 ÷ 9 = 2	6 x 4 = 24
30 ÷ 6 = 5	6 x 2 = 12
24 ÷ 4 = 6	2 x 7 = 14
42 ÷ 6 = 7	2 x 9 = 18
14 ÷ 7 = 2	7 x 6 = 42

Complete the division problems and then write out its inverse equations

1.)	21 ÷ 7 =	
2.)	40 ÷ 5 =	
3.)	34 ÷ 2 =	
4.)	21 ÷ 7 =	
5.)	25 ÷ 5 =	
6.)	15 ÷ 3 =	

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Works cited in regard to Education.com





## THE END!







