

MULTIPLICATION

What is multiplication?

Multiplication is a mathematical operation is which numbers, called **factors**, are multiplied together to get a result, called a **product**.

Multiplication can be used with numbers or decimals of any size.

How to use multiplication:

num

When multiplying two numbers, it is best to stack the numbers
vertically with the number that has more digits on top. The
number with fewer digits should be placed under the first number,
being sure to line up the place values.



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e ones place ace of the top es place in

the answer row. The tens place value of the answer will be carried over and added to the answer when the tens digit is multiplied. Next, multiply the ones digit on the bottom by the tens digit of the top number. Again, bring down the ones place of your answer and carry the tens place value. Keep doing this until all the multiplication is done and then bring down the tens value of the number also.

Examples.



• If the numbers to be multiplied have more than one digit, the same rule applies. The only difference is that under the answer for the ones digit, a zero should be placed then the tens digit can be multiplied. If there is a hundreds digit, two zeros should be added under the answer for the tens digit, then multiply. Once the multiplication is done, add the numbers.

Examples:

456 321
$$\times 21$$
 456 963 $+ 9120$ ← add zero $+ 32100$ ← add zero $+ 32100$ ← add zeros 39483

that is being

digits that

the answer.

 When multiplying with decimals, multiply the same way as without decimals. When the answer is complete, the decimal poin





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