

MULTIPLICATION

What is multiplication?

Multiplication is a mathematical operation in 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:

- When multiplying two numbers, it is best to **stack the numbers vertically with the number that has more digits on top**. The



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place the top number in the tens place and the bottom number in the ones place. Carry the ones place value to the tens place. 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:

$$\begin{array}{r} 2 \\ \times 34 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 34 \\ \times 7 \\ \hline 238 \end{array}$$

- 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:

$$\begin{array}{r}
 456 \\
 \times 21 \\
 \hline
 456 \\
 + \underline{9120} \leftarrow \text{add zero} \\
 \hline
 9576
 \end{array}$$

$$\begin{array}{r}
 321 \\
 \times 123 \\
 \hline
 963 \\
 6420 \leftarrow \text{add zero} \\
 + \underline{32100} \leftarrow \text{add zeros} \\
 \hline
 39483
 \end{array}$$



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ecimal
ber of
being
that
swer.

Try this!

$$\begin{array}{r}
 24 \\
 \times 3 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 652 \\
 \times 14 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 378 \\
 \times 92 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 9.8 \\
 \times .5 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 .57 \\
 \times 2.3 \\
 \hline
 \end{array}$$

