

INTRODUCTION TO PERCENT

What Is Percent?

- A **percent** is a term that describes a decimal in terms of one hundred. Percent means per hundred.
- Percents, fractions and decimals all can equal each other, as in the case of 10%, 0.1 and 1/10.
- Fractions and decimals can easily be changed into percent.
- There are **three cases of percent**.

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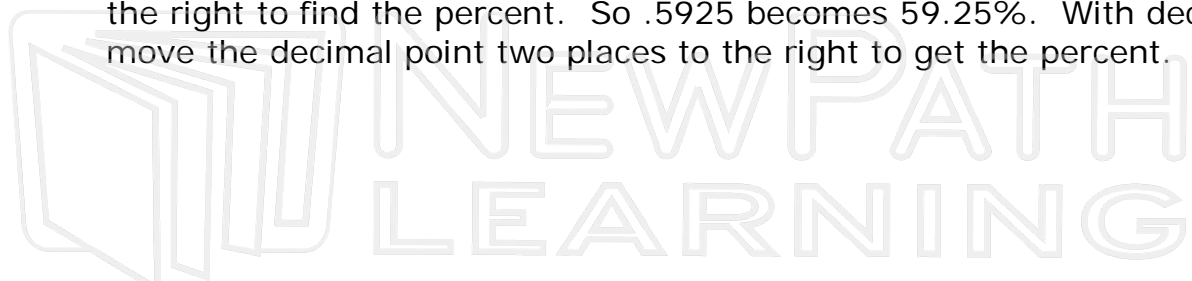
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- If the fraction cannot be put into terms of 100 easily, then divide the fraction to get into decimal form. For example, $16/27$, when divided is .5925. Take the decimal form and move the decimal point two places to the right to find the percent. So .5925 becomes 59.25%. With decimals, move the decimal point two places to the right to get the percent.



- The first of the three cases of percent is a **percentage of a number is taken**.

Example: 16% of 45 is ____?

To find the answer, multiply .16 by 45 to find the result of 7.2.

- The second case of percent is when the **percent is missing**.

Example: 3 is ____% of 20?

To find the missing percent, divide 3 by 20 getting a result of 0.15. This answer is then changed to percent by moving the decimal point two places to the right, 15%.



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- A percent can also be **less than 1%**. If a salesperson earns 1/2% on the sale of a \$600,000 house, how much does she earn?

Example: $1/2\% \text{ of } 600,000 = (.5\%)(600,000) = (.005)(600,000) = \$3000.$



Try This!

1. What is the fraction, $\frac{5}{8}$, as a percent?

2. What is the decimal, $.925$, as a percent?

3. What is 85% as a decimal?



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8. What is 240% of 160 ?

9. What is $\frac{3}{4}\%$ of 200 ?

10. Sneakers cost $\$4.25$ to make and sell for 460% of their cost, how much do the sneakers sell for?