

## 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**.
  - In the first, a percentage of a number is taken.
  - In the second, a number is given as ? percent of another number.
  - In the third case, a number is given as a percentage of ? number.
- Percent from the greater number depends on the percent. A markup is usually 1/2%.



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### How to u

- To **change a fraction to a percent**, the fraction must be put into terms of 100 if possible. For example,  $3/4$  changes into  $75/100$ . Once it is in this form, the numerator becomes the percent, so 75%.
- 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%.

- The third case of percent is when the **number that is being multiplied by the percent is missing**.


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- To find \_\_\_\_\_ in decimal form
- For example, \_\_\_\_\_ as above.
- How much \_\_\_\_\_ % of its cost.

**Answer:** *The coat sells for 327% of its cost or  $(327\%)(\$11) = (3.27)(11) = \$35.97$ .*

- 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:**  $1/2\%$  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?

4. What is 45% as a fraction?

5. Wha



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6. Five

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7. Sixteen is 54% of what number?

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?