Lesson 45: Percents - Finding Percentage of Another Number

**Purpose of lesson:** You will learn how to change fractions to percents.

At times you will be asked to find a percent of a whole number. Fractions show the relationship of one number to a whole. Thus, to find a percent of a whole, we will first start with a fraction, change to a decimal and move the decimal two places to the right to create a percent.

This is easy to do!

a) 8 is what % of 20? **It can also be written:** 8 is _____ % of 20?

1) Make a fraction by putting the **part** over the **whole:**

\[
\frac{\text{part}}{\text{whole}} = \frac{8}{20}
\]

2) Reduce that fraction to lowest terms: \( \frac{2}{5} \)

3) Then divide the **denominator** into the **numerator**:

\[
\frac{40}{5)2.00}
\]

**Note:** When you divide a larger number into a smaller number (2 divided by 5), you must add a decimal point and 2 zeros.
4) Then change the **decimal** number to a **percent** by moving the decimal point 2 places to the right $\Rightarrow$ and add the **percent sign** ($\%$): $0.40 = 40\%$

b) 4 is what % of 200? $\frac{4}{200} = \frac{1}{50} = 0.02 = 2\%$

c) 9 is what % of 27? $\frac{9}{27} = \frac{1}{3}$ from the **fraction/percent** chart, you know that $1/3 = 33 \frac{1}{3}\%$.

Now it’s your turn to try!

**Take Lesson 45 Quiz 1**

**Take Lesson 45 Quiz 2**