

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: $\frac{2}{5}$

Remember, in a fraction the numerator is a part of the denominator. So in a fraction of $\frac{1}{5}$, the meaning is $1 \div 5$ (1 divided by 5). The line between the numerator and denominator means divide.

$$\frac{1}{5} \leftarrow \text{divide}$$



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

$$\begin{array}{r} .40 \\ 5 \overline{) 2.00} \end{array}$$

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 ==> and add the **percent sign (%)**: .40 = **40%**

b) 4 is what % of 200? $\frac{4}{200} = \frac{1}{50}$ $\begin{array}{r} .02 \\ 50 \overline{) 1.00} \end{array} = \underline{2\%}$

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

Now it's your turn to try!

Take Lesson 45 Quiz 1

Take Lesson 45 Quiz 2