

Reteaching Page

8.8 - Percents, Decimals, and Fractions

Since **percent** is a ratio of a number to 100, percents are a special way to write a decimal. As you know, decimals are special fractions. So any number can be written as a fraction, decimal or percent.

Let's look at 32% -

Fraction: 32% is 32 out of 100 or $\frac{32}{100} = \frac{8}{25}$ in simplest form.

Decimal: To write 32% as a decimal, move the decimal 2 places **left** (division) and drop the % sign.

$$32\% = 0.32$$

Let's examine $\frac{5}{8}$ -

Decimal: The fraction $\frac{5}{8}$ means $5 \div 8$. $5 \div 8 = 0.625$

Percent: The fraction $\frac{5}{8}$ is 0.625. Move the decimal 2 places to the right and add the % sign.

$$0.625 = 62.5\% \text{ or } 62\frac{1}{2}\%$$

Let's examine 0.4 -

Fraction: 0.4 is read as four tenths. Written as a fraction... $\frac{4}{10} = \frac{2}{5}$ in simplest form.

Percent: To write 0.4 as a percent, move the decimal 2 places to the **right** (multiplying) and add the % sign.

$$0.4 = 40\%$$

Write each fraction as a decimal and a percent.

$$\frac{3}{10} = \underline{\hspace{2cm}} \text{ and } \underline{\hspace{2cm}}$$

$$3 \div 10 = 0.3$$

Move the decimal 2 places and add the % sign.

$$\frac{17}{20} = \underline{\hspace{2cm}} \text{ and } \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Move the decimal 2 places and add the % sign.

$$\frac{21}{25} = \underline{\hspace{2cm}} \text{ and } \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Move the decimal 2 places and add the % sign.

$$\frac{7}{10} = \underline{\hspace{2cm}} \text{ and } \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Move the decimal 2 places and add the % sign.

Write each percent as a decimal and a fraction.

$$18\% = \underline{\hspace{2cm}} \text{ and } \underline{\hspace{2cm}}$$

Move the decimal 2 places and drop the % sign.

$$0.18 \text{ is } \frac{18}{100} = \frac{9}{50} \text{ in simplest form.}$$

$$50\% = \underline{\hspace{2cm}} \text{ and } \underline{\hspace{2cm}}$$

Move the decimal 2 places and drop the % sign.

$$\underline{\hspace{2cm}} \text{ is } \underline{\hspace{2cm}} = \text{ in simplest form.}$$

$$38\% = \underline{\hspace{2cm}} \text{ and } \underline{\hspace{2cm}}$$

Move the decimal 2 places and drop the % sign.

$$\underline{\hspace{2cm}} \text{ is } \underline{\hspace{2cm}} = \text{ in simplest form.}$$

$$64\% = \underline{\hspace{2cm}} \text{ and } \underline{\hspace{2cm}}$$

Move the decimal 2 places and drop the % sign.

$$\underline{\hspace{2cm}} \text{ is } \underline{\hspace{2cm}} = \text{ in simplest form.}$$