



SKILL 11: Fractions, Decimals, Percent

Fractions, decimals, and percents all describe parts of a whole.

- To convert a fraction to a percent, write an equal fraction with a denominator of 100. You might want to use a proportion to do this.
- To convert a decimal to a percent, multiply the decimal by 100 and write the percent symbol. Remember, to multiply by 100, you can simply move the decimal point two places to the right.

Example 1

Write 15% as a fraction in simplest form and as a decimal.

$$\text{Fraction: } 15\% = \frac{15}{100} = \frac{15 \div 5}{100 \div 5} = \frac{3}{20} \quad \text{Decimal: } 15\% = \frac{15}{100} = 0.15$$

Example 2

Write $\frac{1}{6}$ as a percent. Round to the nearest tenth.

Write a proportion using $\frac{1}{6}$ and a fraction with a denominator of 100.

$$\frac{1}{6} = \frac{x}{100}$$

Find the cross products.

$$6x = 100$$

Divide both sides by 6.

$$x = 100 \div 6$$

$$x \approx 16.7$$

$6x$ means 6 times x

Recall that the symbol \approx means *is approximately equal to*.

$$\text{So, } \frac{1}{6} \approx 16.7\%$$

Guided Practice

Write each percent as a fraction in simplest form and as a decimal.

1. $67\% = \frac{67}{100}$ _____; _____

2. $8\% = \frac{8}{100}$ _____; _____

Write each decimal as a percent.

3. $0.6 = 0.60 =$ _____

4. $0.59 =$ _____

5. $0.231 =$ _____

Solve each proportion. Then write the percent.

6. $\frac{7}{10} = \frac{x}{100}$

7. $\frac{5}{8} = \frac{x}{100}$

8. $\frac{2}{3} = \frac{x}{100}$

$x =$ _____

$x =$ _____

$x \approx$ _____

$\frac{7}{10} =$ _____

$\frac{5}{8} =$ _____

$\frac{2}{3} \approx$ _____