

**6-9****Study Guide and Intervention****Fractions, Decimals, and Percents****Example**Write  $4\frac{3}{8}\%$  as a fraction in simplest form.

$$4\frac{3}{8}\% = \frac{4\frac{3}{8}}{100}$$

Write a fraction.

$$= 4\frac{3}{8} \div 100$$

Divide.

$$= \frac{35}{8} \div 100$$

Write  $4\frac{3}{8}$  as an improper fraction.

$$= \frac{35}{8} \times \frac{1}{100}$$

Multiply by the reciprocal of 100, which is  $\frac{1}{100}$ .

$$= \frac{35}{800} \text{ or } \frac{7}{160}$$

Simplify.

**Example 2**Write  $\frac{5}{16}$  as a percent.

$$\frac{5}{16} = \frac{n}{100}$$

Write a proportion using  $\frac{n}{100}$ .

$$500 = 16n$$

Find the cross products.

$$\frac{500}{16} = \frac{16n}{16}$$

Divide each side by 16.

$$31\frac{1}{4} = n$$

Simplify.

$$\text{So, } \frac{5}{16} = 31\frac{1}{4}\% \text{ or } 31.25\%.$$

**Exercises**

Write each percent as a fraction in simplest form.

1.  $60\% = \frac{3}{5}$

2.  $68\frac{3}{4}\% = \frac{11}{16}$

3.  $27\frac{1}{2}\% = \frac{11}{40}$

4.  $37.5\% = \frac{3}{8}$

Write each fraction as a percent. Round to the nearest hundredth if necessary.

5.  $\frac{2}{5} = 40\%$

6.  $\frac{5}{8} = 62.5\%$

7.  $\frac{9}{16} = 56.25\%$

8.  $\frac{2}{3} = 66.67\%$