

## Fractions, Decimals, and Percents

To express a percent as a decimal, divide by 100 and write as a decimal.

**Examples** Express each percent as a fraction and as a decimal.

**1** 56%

$$56\% = \frac{56}{100} \text{ or } \frac{14}{25}$$

$$56\% = 0.56$$

**2** 3.4%

$$3.4\% = \frac{3.4}{100} \text{ or } \frac{17}{500}$$

$$3.4\% = 0.034$$

To express a decimal as a percent, first write the decimal as a fraction with a denominator of 100. Then write the fraction as a percent.

**Examples** Express each decimal as a percent.

**3** 0.3

$$0.3 = \frac{3}{10}$$

$$= 30\%$$

**4** 0.17

$$0.17 = \frac{17}{100}$$

$$= 17\%$$

To express a fraction as a percent, you can use a proportion.

**Examples** Express each fraction as a percent.

**5**  $\frac{7}{20}$

$$\frac{7}{20} = \frac{n}{100}$$

$$20 \times n = 7 \times 100$$

$$20n = 700$$

$$n = 35$$

**6**  $\frac{5}{12}$

$$\frac{5}{12} = \frac{n}{100}$$

$$12 \times n = 5 \times 100$$

$$12n = 500$$

$$n \approx 41.7$$

**Express each percent as a decimal.**

1. 45%

2. 91%

3. 24.5%

4. 8.37%

**Express each decimal as a percent.**

5. 0.13

6. 0.06

7. 0.765

8. 0.0122

**Express each fraction as a percent.**

9.  $\frac{11}{50}$

10.  $\frac{13}{20}$

11.  $\frac{1}{8}$

12.  $\frac{433}{1,000}$