

Lesson 7-1

Example 1 Find the Percent of a Number **Find 8% of 200.**

To find 8% of 200, you can use either method.

Method 1 Write the percent as a fraction.

$$8\% = \frac{8}{100} \text{ or } \frac{2}{25}$$
$$\frac{2}{25} \text{ of } 200 = \frac{2}{25} \times 200 \text{ or } 16$$

Method 2 Write the percent as a decimal.

$$8\% = \frac{8}{100} \text{ or } 0.08$$
$$0.08 \text{ of } 200 = 0.08 \times 200 \text{ or } 16$$

So, 8% of 200 is 16.

Example 2 Use Percents Greater Than 100% **Find 160% of 18?**

Method 1 Write the percent as a fraction.

$$160\% = \frac{160}{100} \text{ or } 1\frac{3}{5}$$
$$1\frac{3}{5} \text{ of } 18 = 1\frac{3}{5} \times 18$$
$$= \frac{8}{5} \times \frac{18}{1} \text{ or } \frac{144}{5} \text{ or } 28.8$$

Method 2 Write the percent as a decimal.

$$160\% = \frac{160}{100} \text{ or } 1.6$$
$$1.6 \text{ of } 18 = 1.6 \times 18 \text{ or } 28.8$$

So, 160% of 18 is 28.8.

Example 3 Find the Percent of a Number

SURVEYS A survey shows that 28% of 1,250 people surveyed prefer vanilla ice cream over chocolate or strawberry. How many of the people surveyed prefer vanilla ice cream?

To find 28% of 1,250, write the percent as a decimal. Then multiply.

$$\begin{aligned} 28\% \text{ of } 1,250 &= 28\% \cdot 1250 \\ &= 0.28 \cdot 1250 \\ &= 350 \end{aligned}$$

So, 350 of the people surveyed prefer vanilla ice cream.