Lesson 4-6

Example 1 Write Ratios as Percents
Write the ratio as a percent.
David answered 82 out of 100 questions correctly.

$$\frac{82}{100} = 82\%$$

Example 2 Write Ratios as Percents
Write the ratio as a percent.
On average, 32.6 out of 100 people exercise regularly.

$$\frac{32.6}{100} = 32.6\%$$

Example 3 Write a Fraction as a Percent
Write $\dfrac{17}{25}$ as a percent.

First, find an equivalent fraction with a denominator of 100. Then write the fraction as a percent.

$$\frac{17}{25} = \frac{17 \times 4}{25 \times 4} = \frac{68}{100} \text{ or } 68\%$$

So, $\dfrac{17}{25} = 68\%$

Example 4 Use Percent to Solve a Problem
SCHOOL   At Wiley Middle School, 27 of the 50 seventh graders are involved in after-school activities. What percent of the seventh graders is this?

$$\frac{27}{50} = \frac{54}{100}$$ Write an equivalent fraction with a denominator of 100.

$$= 54\%$$ $$\frac{54}{100} = 54\%$$

So, 54% of the seventh graders are involved in after-school activities.

Example 5 Write a Percent as a Fraction
Write 32% as a fraction in simplest form.

$$32\% = \frac{32}{100} \qquad \text{Definition of percent}$$

$$= \frac{8}{25} \qquad \text{Simplify.}$$