

## Lesson 6-9

### Example 1 Percents as Decimals or Fractions

Write **0.6%** as a decimal and as a fraction in simplest form.

$$\begin{aligned} 0.6\% &= .006 && \text{Divide by 100 and remove \% symbol.} \\ &= 0.006 && \text{Decimal form} \\ &= \frac{6}{1000} \text{ or } \frac{3}{500} && \text{Fraction form} \end{aligned}$$

### Example 2 Percents as Decimals or Fractions

**ENTERTAINMENT** This year's attendance at a popular amusement park was **275%** the amount of the previous year. Write **275%** as a mixed number and as a decimal in simplest form.

$$\begin{aligned} 275\% &= \frac{275}{100} && \text{Definition of percent} \\ &= 2\frac{75}{100} \text{ or } 2\frac{3}{4} && \text{Mixed number form} \\ &= 2.75 && \text{Decimal form} \end{aligned}$$

So, this year's attendance is 2.75 times that of last year.

### Example 3 Decimals as Percents

Write **4.31** as a percent.

$$\begin{aligned} 4.31 &= 431 && \text{Multiply by 100.} \\ &= 431\% && \text{Add the \%} \end{aligned}$$

### Example 4 Decimals as Percents

Write **0.0018** as a percent.

$$\begin{aligned} 0.0018 &= 0.18 && \text{Multiply by 100.} \\ &= 0.18\% && \text{Add the \%} \end{aligned}$$

**Example 5 Real-Life Percents as Decimals**

**ENROLLMENT** Over the past three years, the enrollment at a popular summer camp has declined by 0.145. Write this percent as a decimal.

$$\begin{array}{l} 0.145 = 014.5 \\ \quad = 14.5\% \end{array} \quad \begin{array}{l} \text{Multiply by 100.} \\ \text{Add \%} \end{array}$$

The enrollment at the camp has declined 14.5%.