

## Lesson 4-7

### Example 1 Write Percents as Decimals

Write 65% as a decimal.

#### Method 1 Write the percent as a fraction.

$$\begin{aligned} 65\% &= \frac{65}{100} && \text{Write the percent as a fraction.} \\ &= 0.65 && \text{Write the fraction as a decimal.} \end{aligned}$$

So,  $65\% = 0.65$ .

#### Method 2 Divide mentally.

The % symbol means to divide by 100. So, remove the % symbol and divide by 100.

$$\begin{aligned} 65\% &= .65 && \text{Remove the \% symbol and divide by 100.} \\ &= 0.65 && \text{Add leading zero.} \end{aligned}$$

So,  $65\% = 0.65$ .

### Example 2 Write Percents as a Decimal

**RETAIL** A popular clothing store reports that  $25\frac{3}{10}\%$  of the customers who enter the store make a purchase of at least \$50. Write this amount as a decimal.

$$\begin{aligned} 25\frac{3}{10}\% &= 25.3\% && \text{Write } \frac{3}{10} \text{ as } 0.3. \\ &= .253 && \text{Remove the \% symbol and divide by 100.} \\ &= 0.253 && \text{Add leading zero.} \end{aligned}$$

So,  $25\frac{3}{10}\% = 0.253$ .

**Example 3 Write Decimals as Percents****Write 0.47 as a percent.****Method 1 Write the decimal as a fraction.**

$$\begin{aligned} 0.47 &= \frac{47}{100} && \text{Write the decimal as a fraction.} \\ &= 47\% && \text{Write the fraction as a percent.} \end{aligned}$$

**Method 2 Multiply mentally.**

Multiply by 100 and add the % symbol.

$$\begin{aligned} 0.47 &= 047. && \text{Multiply by 100.} \\ &= 47\% && \text{Add the \% symbol.} \end{aligned}$$

So,  $0.47 = 47\%$ .**Example 4 Write Decimals as Percents****WEATHER** During the month of January, it snowed on 0.427 of the days.**Write 0.427 as a percent.**

$$\begin{aligned} 0.427 &= 042.7 && \text{Multiply by 100.} \\ &= 42.7\% && \text{Add the \% symbol.} \end{aligned}$$

So, during the month of January, it snowed on 42.7% of the days.