# Lesson 3 Reteach

## The Percent Proportion

A percent proportion compares part of a quantity to a whole quantity for one ratio and lists the percent as a number over 100 for the other ratio.

part  $\longrightarrow \frac{p}{w} = \frac{n}{100}$  percent

#### Example 1 What percent of 24 is 18?

 $\frac{p}{w} = \frac{n}{100}$ Percent proportion Let n% represent the percent.  $\frac{18}{24} = \frac{n}{100}$ Write the proportion.  $18 \times 100 = 24 \times n$ Find the cross products. 1,800 = 24nSimplify.  $\frac{1,800}{24} = \frac{24n}{24}$ Divide each side by 24. 75 = nSo, 18 is 75% of 24.

### Example 2

What number is 60% of 150?

 $\frac{p}{w} = \frac{n}{100}$ Percent proportion Let n% represent the percent.  $\frac{n}{150} = \frac{60}{100}$ Write the proportion.  $n \times 100 = 150 \times 60$ Find the cross products. 100n = 9,000Simplify.  $\frac{100n}{100} = \frac{9,000}{100}$ Divide each side by 100. n = 90

So, 90 is 60% of 150.

#### **Exercises**

Find each number. Round to the nearest tenth if necessary.

1.	What number is 25% of 20?	5	2.	What percent of 50 is 30?	60%
3.	30 is 75% of what number?	40	4.	40% of what number is 36?	90
5.	What number is 20% of 625?	125	6.	12 is what percent of 30?	40%