**Lesson 6 Reteach**

***Solve Proportional Relationships***

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| A **proportion** is an equation that states that two **ratios** are equivalent. To determine whether a pair of ratios forms a proportion, use **cross products**. You can also use cross products to **solve** proportions. |

**Example 1**

**Determine whether the pair of ratios** $\frac{20}{24}$ **and** $\frac{12}{18}$ **form a proportion.**

Find the **cross products**.

→ 24 • 12 = 288

→ 20 • 18 = 360



Since the **cross products** are ***not*** equal, the ratios **DO NOT** form a **proportion**.

**Example 2**

**Solve** $\frac{12}{30}=\frac{k}{70}$**.**

 $\frac{12}{30}=\frac{k}{70}$Write the equation.

 12 • 70 = 30 • *k* Find the cross products.

 840 = 30*k* Multiply.

 $\frac{840}{30} = \frac{30k}{30}$ Divide each side by 30.

 28 = *k* Simplify.

The solution is 28.