

2-7 Reteaching

Solving Proportions

A proportion is an equation that states that two ratios are equal. If a quantity in a proportion is unknown, you can solve a proportion to find the unknown quantity as shown below.

Problem

What is the solution of $\frac{3}{4} = \frac{x}{14}$?

There are two methods for solving proportions—using the Multiplication Property of Equality and the Cross Products Property.

- 1) The Multiplication Property of Equality says that you can multiply both sides of an equation by the same number without changing the value.

$$\begin{aligned}\frac{3}{4} &= \frac{x}{14} \\ 14\left(\frac{3}{4}\right) &= 14\left(\frac{x}{14}\right) \\ \frac{42}{4} &= x \\ 10.5 &= x\end{aligned}$$

To isolate x , multiply each side by 14.

Simplify.

Divide 42 by 4.

- 2) The Cross Products Property says that you can multiply diagonally across the proportion and these products are equal.

$$\begin{aligned}\frac{3}{4} &= \frac{x}{14} \\ (4)(x) &= (3)(14) \\ 4x &= 42 \\ \frac{4x}{4} &= \frac{42}{4} \\ x &= 10.5\end{aligned}$$

Multiply diagonally across the proportion.

Multiply.

To isolate x , divide each side by 4.

Simplify.

Real world situations can be modeled using proportions.

Problem

A bakery can make 6 dozen donuts every 21 minutes. How many donuts can the bakery make in 2 hours?

A proportion can be used to answer this question. It is key for you to set up the proportion with matching units in both numerators and both denominators.

For this problem, you know that 2 hours is 120 minutes and 6 dozen is 72 donuts.

Correct:

$$\frac{72 \text{ donuts}}{21 \text{ min}} = \frac{x \text{ donuts}}{120 \text{ min}}$$

Incorrect:

$$\frac{72 \text{ donuts}}{21 \text{ min}} = \frac{120 \text{ min}}{x \text{ donuts}}$$

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