

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:

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

Prentice Hall Algebra 2 Answers

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Table of Contents Prentice Hall Algebra 2 Answers

1. Understanding the eBook Prentice Hall Algebra 2 Answers
 - The Rise of Digital Reading Prentice Hall Algebra 2 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Prentice Hall Algebra 2 Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Prentice Hall Algebra 2 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Prentice Hall Algebra 2 Answers
 - Personalized Recommendations

- Prentice Hall Algebra 2 Answers User Reviews and Ratings
- Prentice Hall Algebra 2 Answers and Bestseller Lists
- 5. Accessing Prentice Hall Algebra 2 Answers Free and Paid eBooks
 - Prentice Hall Algebra 2 Answers Public Domain eBooks
 - Prentice Hall Algebra 2 Answers eBook Subscription Services
 - Prentice Hall Algebra 2 Answers Budget-Friendly Options
- 6. Navigating Prentice Hall Algebra 2 Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Prentice Hall Algebra 2 Answers Compatibility with Devices
 - Prentice Hall Algebra 2 Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Prentice Hall Algebra 2 Answers
 - Highlighting and Note-Taking Prentice Hall Algebra 2 Answers
 - Interactive Elements Prentice Hall Algebra 2 Answers
- 8. Staying Engaged with Prentice Hall Algebra 2 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Prentice Hall Algebra 2 Answers
- 9. Balancing eBooks and Physical Books Prentice Hall Algebra 2 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Prentice Hall Algebra 2 Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Prentice Hall Algebra 2 Answers
 - Setting Reading Goals Prentice Hall Algebra 2 Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Prentice Hall Algebra 2 Answers
 - Fact-Checking eBook Content of Prentice Hall Algebra 2 Answers

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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