

# Algebra Word Problem

## Distance Word Problem (Same Direction)

A car leaves a city traveling at 50 km/h. Two hours later, another car leaves the same city traveling at 70 km/h in the same direction. How long will it take for the second car to catch up to the first car?

**Solution:**

**Define the variables:**

Let  $t$  = time taken for the second car to catch up (in hours).

The time taken for the first car would be  $t + 2$  since it has a 2-hour head start.

**Set up the table & equation:**

Formula: Distance = Rate x Time

	Rate (km/h)	Time (h)	Distance (km)
First Car	50	$t + 2$	$50(t + 2)$
Second Car	70	$t$	$70t$

When the second car catches up to the first car, both their distances are equal:  $70t = 50(t+2)$

**Solve the equation:**

$$70t = 50(t + 2)$$

$$70t = 50t + 100$$

$$20t = 100$$

$$t = 5$$

**Answer:**

The second car will catch up to the first car after 5 hours.

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# Distance Problems In Algebra With Solutions

**Julia Schneider**



## **Distance Problems In Algebra With Solutions:**

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### **Table of Contents Distance Problems In Algebra With Solutions**

1. Understanding the eBook Distance Problems In Algebra With Solutions
  - The Rise of Digital Reading Distance Problems In Algebra With Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Distance Problems In Algebra With Solutions
  - 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 Distance Problems In Algebra With Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Distance Problems In Algebra With Solutions
  - Personalized Recommendations

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

- 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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