

Chapter 15

Test Study Guide

Find sale price or final price

15. Original price: \$0.75
Discount: 20%
Sale price: ?

$$\textcircled{1} .75 \cdot .20 = .15$$

$$\textcircled{2} \begin{array}{r} .75 \\ - .15 \\ \hline .60 \end{array}$$

17. Original price: \$24.50
Tax: 18%
Final price: ?

$$\textcircled{1} 24.5 \cdot .18 = 4.41$$

$$\textcircled{2} \begin{array}{r} 24.5 \\ + 4.41 \\ \hline 28.91 \end{array}$$

16. Original price: 295
Discount: 30%
Sale price: ?

$$\textcircled{1} 295 \cdot .3 = 88.5$$

$$\textcircled{2} \begin{array}{r} 295 \\ - 88.5 \\ \hline 206.5 \end{array}$$

18. Original price: \$145
Tax: 1.5%
Final price: ?

$$\textcircled{1} 145 \cdot .015 = 2.175$$

$$\textcircled{2} \begin{array}{r} 145 \\ + 2.18 \\ \hline 147.18 \end{array}$$

An account earns annual simple interest. Find the interest earned, principal, interest rate, or time.

19. Interest earned: ?
Principal: \$800
Interest rate: 6.5%
Time: 2 years

$$I = prt$$

$$I = 800 \cdot .065 \cdot 2$$

$$\textcircled{I = 104}$$

20. Interest earned: \$7.50
Principal: ?
Interest rate: 12%
Time: 3 months

$$P = \frac{I}{rt}$$

$$P = \frac{7.50}{.12 \cdot .25}$$

$$\frac{3}{12} = \frac{1}{4} = .25$$

$$\textcircled{P = 250}$$

21. Interest earned: \$235.50
Principal: \$7850
Interest rate: 2%
Time: ?

$$t = \frac{I}{Pr}$$

$$t = \frac{235.50}{7850 \cdot .02}$$

$$\textcircled{t = 1.5 \text{ yrs}}$$

22. Interest earned: \$837
Principal: \$3100
Interest rate: ?
Time: 6 years

$$r = \frac{I}{Pt}$$

$$r = \frac{837}{3100 \cdot 6}$$

$$\textcircled{r = 4.5\%}$$

An account earns annual simple interest. Find the balance of the account.

23. \$1400 at 1.25% for 3 years

$$\textcircled{1} 1400 \cdot .0125 \cdot 3 = 52.5$$

$$\textcircled{2} 1400 + 52.5 = \textcircled{\$1452.50}$$

24. \$5000 at 6% for 9 months $\rightarrow \frac{9}{12} = \frac{3}{4} = .75$

$$\textcircled{1} 5000 \cdot .06 \cdot .75 = 225$$

$$\textcircled{2} 5000 + 225 = \textcircled{\$5225}$$

25. The gas tank of your car is 40% full. There are 8 gallons of gas in the tank. What is the capacity of the gas tank?

$$\frac{40}{100} = \frac{8}{x}$$

$$800 = 40x$$

$$\textcircled{20 = x}$$

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Table of Contents Big Ideas Math Practice Journal

1. Understanding the eBook Big Ideas Math Practice Journal
 - The Rise of Digital Reading Big Ideas Math Practice Journal
 - Advantages of eBooks Over Traditional Books
2. Identifying Big Ideas Math Practice Journal
 - 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 Big Ideas Math Practice Journal
 - User-Friendly Interface
4. Exploring eBook Recommendations from Big Ideas Math Practice Journal
 - Personalized Recommendations
 - Big Ideas Math Practice Journal User Reviews and Ratings
 - Big Ideas Math Practice Journal and Bestseller Lists
5. Accessing Big Ideas Math Practice Journal Free and Paid eBooks
 - Big Ideas Math Practice Journal Public Domain eBooks
 - Big Ideas Math Practice Journal eBook Subscription Services
 - Big Ideas Math Practice Journal Budget-Friendly Options

6. Navigating Big Ideas Math Practice Journal eBook Formats
 - ePub, PDF, MOBI, and More
 - Big Ideas Math Practice Journal Compatibility with Devices
 - Big Ideas Math Practice Journal Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Big Ideas Math Practice Journal
 - Highlighting and Note-Taking Big Ideas Math Practice Journal
 - Interactive Elements Big Ideas Math Practice Journal
8. Staying Engaged with Big Ideas Math Practice Journal
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Big Ideas Math Practice Journal
9. Balancing eBooks and Physical Books Big Ideas Math Practice Journal
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Big Ideas Math Practice Journal
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Big Ideas Math Practice Journal
 - Setting Reading Goals Big Ideas Math Practice Journal
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Big Ideas Math Practice Journal
 - Fact-Checking eBook Content of Big Ideas Math Practice Journal
 - 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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