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Math 7: Chapter 6 Practice Test

Short Answer

$$\frac{13}{0.8} = \frac{\%}{100}$$

Write and solve a proportion or an equation to answer the question.

1. What number is 25% of
- $\frac{5}{8}$
- ?

$$\frac{x}{5/8} = \frac{25}{100}$$

$$x = 0.15625$$

2. What percent of 65 is 13?

$$\frac{13}{65} = \frac{x}{100}$$

$$x = 20\%$$

Write the decimal as a percent.

3. 3.18

$$= 318\%$$

4. 0.532

$$= 53.2\%$$

Write the percent as a decimal.

5. 9%

$$= 0.09$$

6. 35.8%

$$= 0.358$$

Answer key!

Use a number line to order the numbers from least to greatest.

7. 74%,
- $\frac{7}{10}$
- , 0.68

$$\frac{70}{100}, \frac{68}{100}$$

$$0.68, \frac{7}{10}, 74\%$$

Find the new amount.

8. 90 gallons increased by 130%

$$90 \times 1.3 = 117$$

$$90 + 117 = 207$$

$$\frac{130}{100} = \frac{130}{100}$$

9. 50 meters decreased by 10%

$$50 \times 0.10 = 5$$

$$50 - 5 = 45$$

$$\frac{10}{100} = \frac{10}{100}$$

$$\frac{50}{5.00} = 10$$

Solve using a proportion, equation, or a model. You must show work.

10. What number is 90% of 60?

$$\frac{x}{60} = \frac{90}{100}$$

$$x = 0.9 \cdot 60$$

$$100 \overline{) 5400} \quad 54$$

11. 25 is what percent of 30?

$$\frac{25}{30} = \frac{x}{100}$$

$$25 = x \cdot 30$$

$$83.3\%$$

$$0.833$$

12. 48 is 20% of what number?

$$\frac{48}{x} = \frac{20}{100}$$

$$48 = 0.2 \cdot x$$

$$240$$

13. 68 is what percent of 80?

$$\frac{68}{80} = \frac{x}{100}$$

$$68 = x \cdot 80$$

$$85\%$$

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Table of Contents Math Text Answers

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

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