

Grade 6 Math Study Guide

This study guide allows you to work on questions connected to 6th grade math curriculum benchmarks and standards. You will be expected to know and solve the following problems and exercises on your test.

Comparing and Ordering Rational Numbers

Place $<$, $=$ or $>$ to make a true sentence.

1. -5 ___ 5

2. -27 ___ -35

3. 7 ___ 0

4. 4 ___ -11

5. 7 ___ -7

6. 12 ___ -24



7. 7% ___ $\frac{32}{50}$

Contextual Problems with Integers

Define.

1. **WILDER.** The highest and lowest recorded temperatures for the state of Texas are 120°F and -20°F . Find the difference in these extreme temperatures.

2. **BUSINESS.** A business had losses of \$200, \$75, and \$375, and profits of \$25 and \$225. How much was the overall profit or loss?

Fractions, Percents, Decimals

When a ratio compares a number to 100, it can be written as a percent. To write a ratio as a fraction as a percent, find an equivalent fraction with a denominator of 100.

Write each ratio as a percent.

1. $\frac{14}{100}$

2. $\frac{27}{100}$

3.

15 to 25

Write each percent as a ratio in simplest form.

4. 20%

5. 10%

6. 75%

Write each decimal as a ratio in simplest form.

Adding Integers

For integers with the same sign:

- the sum of two positive integers is positive.
- the sum of two negative integers is negative.

For integers with different signs, subtract their absolute values. The sum is:

- positive if the positive integer has the greater absolute value.
- negative if the negative integer has the greater absolute value.

Hint: To add integers, it may be helpful to draw counters or a number line.

1. $-5 + (-2) =$

2. $-8 + 2 =$

3. $-7 +$

Subtracting Integers

To subtract an integer, add its opposite. Hint: Rewrite problem as an addition problem, use rules for adding integers.

$6 - 9 = 6 + (-9)$ To subtract 9, add -9 .
 $= -3$ Simplify

1. $7 - 9$

2. $20 - (-4)$

3. $-30 - 4$

4. $0 - 12$

5. $10 - 10$

6. $10 - 10$

Multiplying/Dividing Integers

The product of two integers with different signs is negative. The product of two integers with the same sign is positive.

The quotient of two integers with different signs is negative. The quotient of two integers with the same sign is positive.

1. $-5(6) =$

2. $-3(-7) =$

3. $10(-8) =$

4.

4. $(-12) \div (-4) =$

5. $(-4) \div (-7) =$

6.

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Table of Contents Grade 6 Study Guide

1. Understanding the eBook Grade 6 Study Guide
 - The Rise of Digital Reading Grade 6 Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 6 Study Guide
 - 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 Grade 6 Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 6 Study Guide
 - Personalized Recommendations
 - Grade 6 Study Guide User Reviews and Ratings
 - Grade 6 Study Guide and Bestseller Lists
5. Accessing Grade 6 Study Guide Free and Paid eBooks
 - Grade 6 Study Guide Public Domain eBooks
 - Grade 6 Study Guide eBook Subscription Services
 - Grade 6 Study Guide Budget-Friendly Options

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