

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 procedures on your test.

Comparing and Ordering Rational Numbers

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

1. -5 ___ 5

2. -17 ___ -31

3. 7 ___ 0

4. 4 ___ -11

5. 7 ___ -7

6. 12 ___ -24



7. 7% ___ $\frac{7}{10}$

Contextual Problems with Integers

Solve.

1. **WUJIAH** The highest and lowest recorded temperatures for the state of Texas are 120°F and -10°F . Find the difference in these extreme temperatures.

2. **BURKHARD** A business had losses of \$205, \$75, and \$275, and profits of \$31 and \$225. How much was its 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. 10%

5. 10%

6. 70%

Write each decimal as 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. $-8 + 1 =$

3. $-7 + 12 =$

Subtracting Integers

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

$6 - 8 = 6 + (-8)$ To subtract 8, add -8.
 $= -2$ Simplify

1. $7 - 9$

2. $20 - (-4)$

3. $-30 - 4$

4. $0 - 12$

5. $17 - 19$

6. $12 - 18$

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. $-5(8) =$

2. $-3(-7) =$

3. $10(-6) =$

4. $-12 \div -4 =$

5. $-14 \div (-7) =$

6.

6 Grade Study Guide

S Ashworth



6 Grade Study Guide:

Eureka Math Grade 7 Study Guide Great Minds,2016-04-25 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 7 provides an overview of all of the Grade 7 modules including Ratios and Proportional Relationships Rational Numbers Expressions and Equations Percent and Proportional Relationships Statistics and Probability Geometry

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