

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

Define.

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. **BURKHES**: 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. 18%

6. 75%

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.

Math Study Guide 6th Grade

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