

Study Guide for Integers Test

Write an integer for each situation:

A deposit of \$55 _____

A withdrawal of \$84 _____

32 degrees below zero _____

temperature of 72 degrees _____

An elevator goes down 10 floors _____

160 below sea level _____

200 A.D. _____

670 B.C. _____

Absolute Value

Determine the value of the following:

$$|-20| = \underline{\hspace{2cm}}$$

$$|5| = \underline{\hspace{2cm}}$$

$$|-12 + 7| = \underline{\hspace{2cm}}$$

Number lines

Plot each point on a number line, then replace each ____ with < or >.



$$-7 \underline{\hspace{1cm}} 5$$

$$4 \underline{\hspace{1cm}} -4$$

$$-8 \underline{\hspace{1cm}} -4$$

Replace each ____ with < or >:

$$5 \underline{\hspace{1cm}} -11$$

$$-12 \underline{\hspace{1cm}} -23$$

$$20 \underline{\hspace{1cm}} -5$$

$$-11 \underline{\hspace{1cm}} 0$$

$$-2 \underline{\hspace{1cm}} 9$$

$$15 \underline{\hspace{1cm}} 10$$

Order the following from least to greatest:

51, -63, 49, -24, -38, 38 _____

17, 0, -20, -1, 25, 1 _____

Complete the following problems:

$3 + -2 = \underline{\hspace{2cm}}$

$5 + 2 = \underline{\hspace{2cm}}$

$-3 + (-2) = \underline{\hspace{2cm}}$

$-2 + 2 = \underline{\hspace{2cm}}$

$3 + (-3) = \underline{\hspace{2cm}}$

$6 + (-2) = \underline{\hspace{2cm}}$

$-6 + 2 = \underline{\hspace{2cm}}$

$0 + (-3) = \underline{\hspace{2cm}}$

$5 + 0 = \underline{\hspace{2cm}}$

First change each subtraction problem to an addition problem by doing the "boom/boom" method.

$3 + (-1) = \underline{\hspace{2cm}}$

$-10 + 5 = \underline{\hspace{2cm}}$

$-7 + -3 = \underline{\hspace{2cm}}$

$-5 + -2 = \underline{\hspace{2cm}}$

$3 - (-2) = \underline{\hspace{2cm}}$

$-1 - 4 = \underline{\hspace{2cm}}$

Adding Integers

Write out the rule for adding integers in your own words:

The rule when adding integers with the same sign is:

_____.

When adding integers with different signs, the rule is:

_____.

Now complete the following problems using the rules above:

$15 + 7 = \underline{\hspace{2cm}}$

$-15 + 7 = \underline{\hspace{2cm}}$

$-15 + -7 = \underline{\hspace{2cm}}$

$15 + -7 = \underline{\hspace{2cm}}$

With subtraction problems, you make 2 strokes (boom-boom):

$8 - 10 = \underline{\hspace{2cm}}$

$5 - (-4) = \underline{\hspace{2cm}}$

$30 - (-10) = \underline{\hspace{2cm}}$

$7 - 15 = \underline{\hspace{2cm}}$

The rule when multiplying and dividing integers is:

_____!

Complete the following problems using the rule above:

$$-5(2)=\underline{\hspace{2cm}} \quad -5(-2)=\underline{\hspace{2cm}} \quad 6(0)=\underline{\hspace{2cm}} \quad 4(-7)=\underline{\hspace{2cm}}$$

$$40 \div -5 = \underline{\hspace{2cm}} \quad \frac{-15}{-3} = \underline{\hspace{2cm}} \quad 15 \div -3 = \underline{\hspace{2cm}}$$

Word problems with integers:

1. The lowest recorded temperature for Sterling for the month of January is -15 degrees Fahrenheit. The lowest recorded temperature for the month of March is 7 degrees Fahrenheit. What is the difference between the two temperatures?

2.

Toy	Year
Yo-yo	500 BC
Teddy bear	102 AD
Chess	600 AD
Checkers	2000 BC

Using the table above, order the inventions from earliest to most recent:

3. You pay your brother \$35 that you owe him. The same week you earn \$42 dog sitting for the neighbors.
4. Stephanie has \$43 dollars in the bank. She withdraws \$16. What is her balance after the withdrawal?
5. The members of the Investment Club purchased a stock for \$50. The next day the price of the stock dropped \$15. On the second and third days, the price dropped another \$12 and then rose \$20. How much was the stock worth at the end of the third day?