

Integers Quiz 1 Review

The Integers Quiz is scheduled for _____ Use this review to help you prepare for this assessment. Make sure you are familiar with the following vocabulary.

VOCABULARY: integer, negatives, positives, opposites, distributive property, factors

DIRECTIONS: FIRST FILL IN THE HINT BOXES FIRST TO HELP YOU BEGIN THINKING ABOUT EACH PROBLEM. ANSWER THE FOLLOWING QUESTIONS REFERRING TO YOUR CLASS NOTES, IF NEEDED.

PART I: INTEGERS IN THE REAL WORLD

Write a positive or negative integer that represents each situation.

- 1.) Mt. Everest, the highest elevation in Asia, is 29,028 feet above sea level.

29,028

- 2.) The Dead Sea, the lowest elevation, is 1,312 feet below sea level.

-1,312

- 3.) Zack earned 5 extra credit points. Zack deposited ~~\$45~~ into his account.

Credit points

5

- 4.) In Buffalo, New York, the temperature was 5°F in the morning.

5

Hint Box:

Which words describe positive integers?

above sea level gain deposit

Which words describe negative integers?

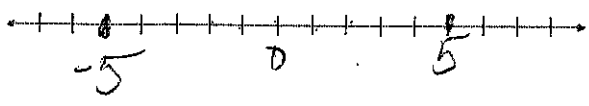
below sea level loss below zero withdrawal

PART II: OPPOSITES

5.) What is the opposite of -24? 24

6.) What is the opposite of 300? -300

7.) Graph -5 and its opposite.



8.) What number is halfway between the two integers on the graph above? 0

9.) Simplify.

$-(-11) = 11$

Think Box:

What does $-(-5)$ mean?
 the opposite of negative
 5

What integer is halfway between a number and its opposite?
 0

Are all integers positive or negative?
 No, zero is neutral

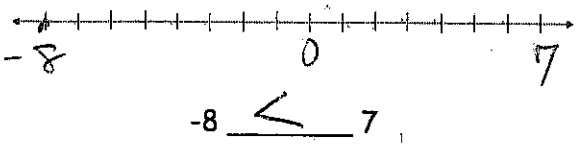
PART III: COMPARING INTEGERS

Graph then compare using $<$ or $>$.

10.) -10 and -9
 $-10 < -9$



11.) -8 and 7



Hint Box:

Does zero always have to be shown on a number line?
 No

How many types of number lines are there? Draw them.
 2 - horizontal \longleftrightarrow
 - vertical \updownarrow

What does $<$ mean?
 is less than

What does $>$ mean?
 is greater than

Where do you write numbers on a horizontal number line?
 under the number line

12.) Find another way to write the inequality in number 11 above.

$7 > -8$

13.) Compare using < or >.

a. $-7 < 0$

b. $5 < 8$

c. $-8 < 7$

d. $-2 > -6$

e. $-9 < -6$

f. $-5 < 1$

PART IV: ORDERING INTEGERS AND SCALE

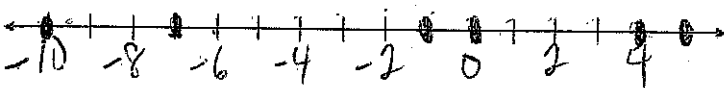
State the order.

Plot the following integers on the number line below

14.) $-7, 4, 0, -10, -1, 5$
 (with arrows pointing to -10 labeled "MIN" and to 5 labeled "MAX")

SCALE: 1

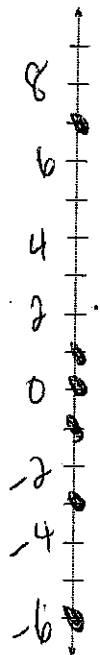
order: $-10, -7, -1, 0, 4, 5$



15.) $-6, -3, 1, 0, 7, -1$
 (with -6 circled and labeled "MIN" and 7 circled and labeled "MAX")

SCALE: 1

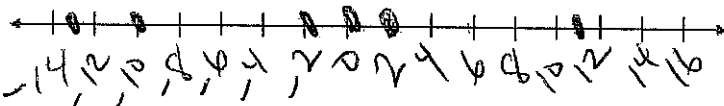
order: $-6, -3, -1, 0, 1, 7$



16.) $-13, 2, 0, -10, -2, 11$
 (with -13 and 11 circled)

SCALE: 2

order: $-13, -10, -2, 0, 2, 11$



Hint Box:

What does the word "scale" mean in this context?

How many units each tick mark increases when you move to the right

How do you determine the appropriate scale for a number line?

Identify the minimum and maximum values

Describe where the positive and negative integers go on a horizontal number line.

*Negative - left of zero
Positive - right of zero*

Describe where the positive and negative integers go on a vertical number line.

*Negative - below zero
Positive - above zero*

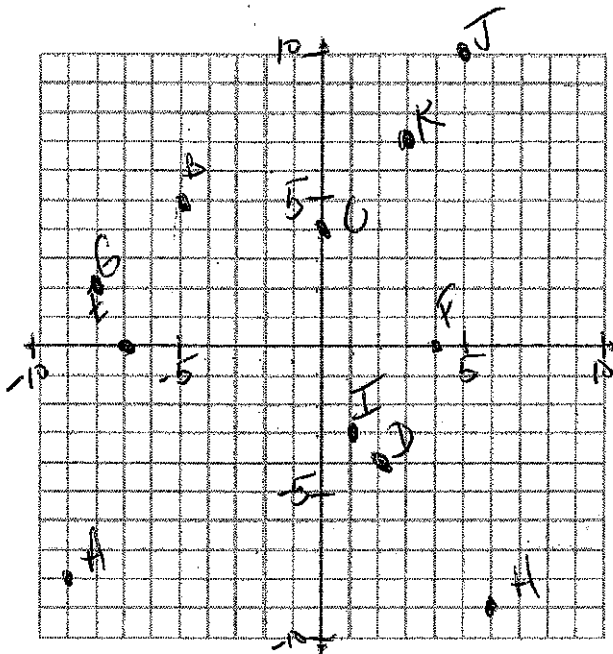
When plotting points, where do you draw the points?

On the number line

PART V: THE COORDINATE PLANE

17.) Plot the following points on the coordinate plane below. Be sure to label the points with the given letter.

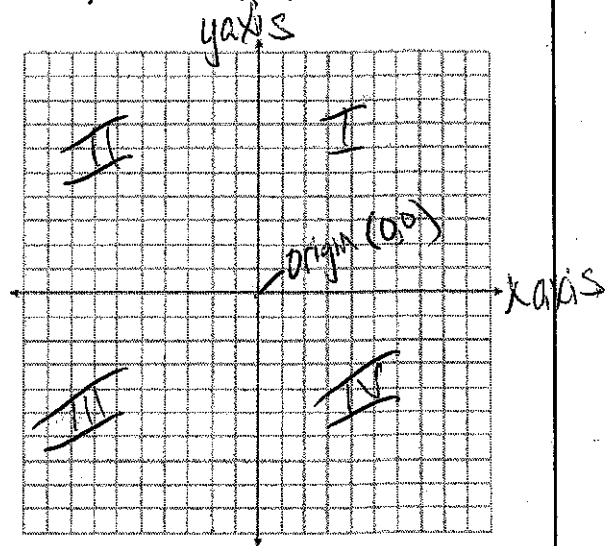
- A(-9, -8)
- B(-5, 5)
- C(0, 4)
- D(2, -4)
- E(-7, 0)
- F(4, 0)
- G(-8, 2)
- H(6, -9)
- I(1, -3)
- J(5, 10)
- K(3, 7)



Hint Box:

Label the parts of the coordinate plane below.

x-axis, y-axis, origin, quadrants I, II, III and IV.



What happens when one of the coordinates in an ordered pair is zero?

The ~~order~~ point falls on either the x or y axis

18.) Name the ordered pair of the following points. Then state the quadrant or axis of its location.

- 3 A (-4, -2)
- 4 B (2, -5)
- 2 C (-3, 4)
- 1 D (1, 5)
- on axis E (5, 0)
- on axis F (-1, 0)

