Quiz Review – Integers, Rational Numbers, Absolute Value, Coordinate Graphing

1) The coldest temperature James ever recorded at his house was 16 degrees below zero.
   Which number represents this temperature?
   a) 16
   b) -16
   c) 0
   d) 1.6

2) What is the opposite of -8.
   a) 8
   b) 8.1
   c) -8
   d) 1/8

3) Which inequality is shown by the points on this number line?
   __________

   -12 -10 -8 -6 -4 -2 0 2 4 6 8 10 12
   a) 10 > 9
   b) -9 < 10
   c) -9 > 10
   d) None of the above
4) Dan ran $6.25$ miles. Joe ran $6 \frac{1}{2}$ miles. __________

Who ran further?  \textit{Show your work to justify your answer.}

a) Joe  

b) Dan  

5) Sea Level is represented by which integer? __________

a) -1  

b) 1  

c) 0  

d) None of the above  

6) Seneca lost $45$. __________

Which is the correct integer?

a) 0.45  

b) 4.5  

c) -45  

d) 45
7) Which of the following is the opposite of the opposite of 5? ________
   a) 0
   b) 5
   c) -5
   d) 10

8) Evaluate. |12| + |-6|
   a) 18
   b) -18
   c) 6
   d) -6

9) Amy is building a house. The basement floor is at -13 feet. The roof of the house is above the ground at 25 feet. Write an inequality to compare the heights.

   ______________________________________________________

10) Order the set {-7, 5, 2, -9, 1, 0} from greatest to least.

   _______________________________________________________
11) Write each fraction as a decimal.

\[
\frac{1}{2} = \quad \frac{1}{4} = \quad \frac{3}{4} = 
\]

12) Compare >, < or =. 
-16 \bigcirc -15

-0.86 \bigcirc -\frac{3}{4}

| -13 | \bigcirc 13

13) Which statement is \textit{false}?

a) \(4 > -3\)

b) \(\frac{1}{5} > -1\frac{4}{5}\)

c) \(\frac{3}{4} = -0.75\)

d) \(1.5 > \frac{10}{9}\)
14) The Grinch’s homeroom raised $1,259 for the local Elves’ charity. Find the opposite of the opposite of this integer.

a) -1,259
b) 1,259
c) 9,521
d) \( \frac{1}{1,259} \)

15) The temperatures recorded for the week were as follows:

-2, 32, -4, 13, -10, 14, 29

List them in order from coldest to warmest.

16) To find the **Absolute Value** of a number means to see, ________

a) how far a number is from 100 on a number line
b) how far a number is from 0 on a number line
c) how far a number is from one on a number line
d) how far a number is from -1 on a number line

17) The absolute value of \( |-8| \) is ________

a) -8
b) \( \frac{1}{8} \)
c) 8.1
d) 8
18) Fill in the □ with <, >, or = to.

-9.25 □ 9.25

a) >
b) <
c) =

19) Megan was playing a game. She lost 10 points at the start of the game, but then she gained 22 points on her next turn. What is Megan’s score?

a) 32 points
b) -22 points
c) 4 points
d) 12 points

Answer:________

20) Which of the following does not mean “positive”?

a) loss
b) increase
c) found
d) gain

Answer:________

21) Yesterday, the low temperature for was -1°F. Today, the temperature is 7°F. What is the difference between these two temperatures?

a) 6°F
b) -6°F

c) 8°F
d) -8°F

Answer:________
22) Is zero a) Negative, b) Positive, or c) Neither? _________

23) Which of the following is true about the opposite of 0? _________
   a) Zero has no opposite.
   b) Zero is its own opposite
   c) Zero has a lot of opposites.
   d) Zero is not a number, so it has no opposites.

24) Using the line below, create a number line from -12 to 12.

-12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13

a) Label -12 with the letter M.
b) Label the opposite of M with a T.
c) Label an integer between -10 and -8 with an A.
d) Label the opposite of A with an N.
e) Label the opposite of the opposite of -5 with the letter G.
f) Label the integer -3 with the letter N.
g) Label the opposite of 0 with the letter I.
h) Label the opposite of -1 with F.
i) Label the opposite of N (from letter f) with C.
j) Label an integer between 5 and 9 with the letter E.
k) Label the integer 2 with the letter I.
l) Complete this sentence with the word you created above:
   Math class is _________________________________! :)
25) What is the coordinate point for the origin? __________________

26) What axis is horizontal? __________________

27) What axis is vertical? __________________

28) A coordinate plane is made up of 4 boxes that are called ____________________________.

29) When locating coordinate points in one of the four ____________________________,
you use ____________________________ to tell which ____________________________ they are in.

30) The point (-4,5) will be in which _________________? _________

31) Coordinate points that are in ____________________________ ________ are both positive.

32) To plot the coordinate point (5, -3), you would
   a) go left 5 spaces and up 3 spaces
   b) go right 5 spaces and up 3 spaces
   c) go right 5 spaces and down 3 spaces
d) go left 5 spaces and down 3 spaces