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?

\[ -9, -12, -10, -8, -6, -4, -2, 0, 2, 4, 6, 8, 10, 12 \]

a) 10 > 9
   b) -9 < 10
   c) -9 > 10
   d) None of the above

* Negatives are always less than positives.
4) Dan ran 6.25 miles. Joe ran $6\frac{1}{2}$ miles.

Who ran further? *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? B.
   
a) 0
   b) 5
   c) -5
   d) 10

8) Evaluate. $|12| + |-6|$ → Absolute value = distance from zero.
   
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.

   -13 < 25

10) Order the set {$\emptyset$, $\emptyset$, $\emptyset$, $\emptyset$, $\emptyset$} from greatest to least.

   5, 2, 1, 0, -7, -9
11) Write each fraction as a decimal.

\[
\begin{align*}
\frac{1}{2} &= 0.5 \\
\frac{1}{4} &= 0.25 \\
\frac{3}{4} &= 0.75
\end{align*}
\]

12) Compare $>$, $<$ or $=$.

-16 $<$ -15 is closer to zero

-0.86 $<$ $-\frac{3}{4} = -0.75$ is closer to zero

$|-13| = 13$

13) Which statement is \textit{false}?

a) $4 > -3$ $\checkmark$

b) $\frac{1}{5} > -\frac{4}{5}$ $\checkmark$

c) $\frac{3}{4} = -0.75$ $\times$

d) $1.5 > \frac{10}{9} = 1.\overline{1}$ $\checkmark$
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) \(\frac{1}{1,259}\)

   \(1,259 \rightarrow -1,259 \rightarrow 1,259\)

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.

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

16) To find the \textit{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.

\[
\begin{array}{ccc}
-9.25 & \bullet & 9.25 \\
\end{array}
\]

- positive is always greater than negative

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: ___ D ___

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

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

Answer: ___ A ___

21) Yesterday, the low temperature 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: ___ C ___
22) Is zero a) Negative, b) Positive, or c) Neither?  
   ___ C. ___

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

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

```
| M | A | G | N | I | F | I | C | E | N | T |
```

- **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 **Magnificent**!  :)

25) What is the coordinate point for the origin? \[(0,0)\]

26) What axis is horizontal? \[x\text{-axis}\]

27) What axis is vertical? \[y\text{-axis}\]

28) A coordinate plane is made up of 4 boxes that are called \[\text{quadrants}\].

29) When locating coordinate points in one of the four \[\text{quadrants}\], you use \[\text{Roman Numerals}\] to tell which \[\text{quadrant}\] they are in.

30) The point \((-4,5)\) will be in which \[\text{quadrant}\]? \[\text{II}\]

31) Coordinate points that are in \[\text{quadrant I}\] 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