Numbers and Operations Mid-Unit Test

1) Which of the following is an integer? Select all that apply.

а.	2	d.	0
b.	-4	e.	7.25
C.	$\frac{3}{5}$	f.	0.6

Match each integer with the scenario it is representing.

2)210	 a) Mount Marcy is the highest point in New York State. It is 5,343 feet above sea level. 			
3)0	b) Lake Erie is 210 feet below sea level.			
4) 5343	c) The elevation of Niagara Falls, NY is 614 feet above sea level.			
5)50	d) The lobby of the Empire State Building is 50 feet above sea level.			
6)435	e) New York State borders the Atlantic Coast, which is at sea level.			
7)614	f) The lowest point of Cayuga Lake is435 feet below sea level.			
8) What is the opposite of -3?				
9) What is the opposite of 10?				
10) What is -22 ?				
11) What is 8 ?				

12) Which two numbers have 30 as their absolute value?



Story: A team of expert divers went on an expedition to view sharks in their natural habitat. They began their journey on a boat, at 15 feet above the surface of the water. They recorded each of their shark encounters on a chart like the one below.

Shark Number	1	2	3	4	5	6
Feet below sea level	-35	-28	-31	-19	-24	-15

17) Plot the depth of each shark encounter and their position on the boat on the vertical (up and down) number line. Label sea level on your number line.

Story: Mr. Kindle invested some money in the stock market. He tracks his gains and losses using a computer program. Mr. Kindle receives a daily email that updates him on all his transactions from the previous day. This morning, his email read as follows:

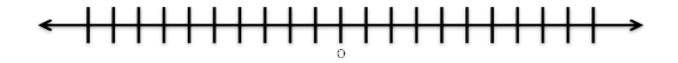
Good morning, Mr. Kindle,

Yesterday's investment activity included a loss of \$800, a gain of \$960, and another gain of \$230. Log in now to see your current balance.

18) Write an integer to represent each gain and loss.

Description	Integer Representation
Loss of \$800	
Gain of \$960	
Gain of \$230	

19) Mr. Kindle noticed that an error had been made on his account. The "loss of \$800" should have been a "gain of \$800." Locate and label both points that represent "a loss of \$800" and "a gain of \$800" on the number line below. Describe the relationship of these two numbers, when zero represents no change (gain or loss).



20) Mr. Kindle wanted to correct the error, so he entered -(-\$800) into the program. He made a note that read, "The opposite of the opposite of \$800 is \$800." Is his reasoning correct? Explain.