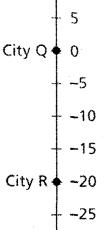
Date _____

Lesson #1 – Integers and Absolute Value

Do Now:

1) The elevations, in feet, of three cities are marked on the number line shown on the right.

The point 0 on the number line represents sea level. Which statement must be true?



- a) City P and City Q are above sea level.
- b) City Q and City R are below sea level.
- c) City P is above sea level and City Q is below sea level.
- (d) City P is above sea level and City R is below sea level.
- 2) What is the value of the expression below?

$$2[3(4^{2}+1)]-2^{3}$$

$$2[3(16+1)]-8$$
a) 156
b) 110
$$2[3(17)]-8$$
d) 48
$$2(51)-8$$

$$102-8$$

$$94$$

<u>Directions:</u> With you table partner, come up with as many words as you can to represent positive and negative integers.

Positive Integers	Negative Integers
above receive profit elevation gain after rise ascend save deposit	down withdraw below gledluct loss descend fall before dropped spent

Directions: Express each statement as an integer.

1) spent \$7.	-7	2) My skateboard ramp rises 5 feet. 5	
3) I lost a 5 dollar bill.	-5	4) I had a fever. My temperature was 4° above normal.	
5) I received \$10 for my birt	hday. / D	6) I awoke two hours before dawn. 2	
7) I swam 500 feet below se	ea level. 500	8) I made a profit of \$50. 5 O	
9) I made a withdrawal of \$75. — 75		10) The temperature dropped 12 degrees. 72	
11) I made a deposit of \$25	25	12) The elevator descended 4 floors. -4	

<u>Directions:</u> Find the value of the following problems. Show your work.

13) 14	14) -5	15) 20 – 10 10 10	16) 6 + 10 16
			16

<u>Directions:</u> Complete the statement using <, >, or =.

20) 10 <u></u>	21) 9 -9
22) 9-4 <u>L</u> 6+10 5) 16 5 6	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

24) Is the freezing point of airplane fuel or candle wax closer to the freezing point of water (0°) ? Explain your reasoning.

Airplane fuel bk it is 53° away from 0° where the landle wax is 55° away

Substance	Freezing Point (°C)
Butter	35
Airplane Fuel	- 53
Honey	- 3
Mercury	- 39
Candle Wax	55