HW 1-2

Int 1   **Integers & Absolute Value**   **Unit 1**

Write an integer for each situation.

1. a profit of $9 _____

2. A bank withdrawal of $50 _____

3. $53°C$ below zero _____
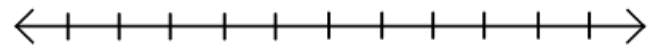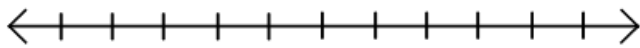
4. 7 inches more than normal _____

Graph each set of integers on a the given number line.

5. $\{0,1,-3\}$

6. $\{-5,-1,3,-7\}$

←+++++++++++→   ←+++++++++++→

Evaluate each expression.

7. $-|-10| =$ __

8. $|-7|-5 =$ _____

9. $1+|7| =$ _____

10. The number of yards a football team moves on the field can be represented using the expression $|8|+|-4|$. How many total yards does the football team move?

11. In golf, scores are often written in relationship to *par*, the average score for a round at a certain course. Write an integer to represent a score that is 7 under par.

12. A scuba diver descended 10 feet, 8 feet, and then 11 feet. The total number of feet can be represented using the expression $|-10|+|-8|+|-11|$. What is the total number of feet the scuba diver descended?

13. Mr. Chavez spent $199.99 for a new smart phone, $39.99 on a carrying case, and $59.99 on accessories. The expression $|-199.99|+|-39.99|+|-59.99|$ represents the total amount that Mr. Chavez spent. How much did Mr. Chavez spend altogether? Check your answer using estimation.
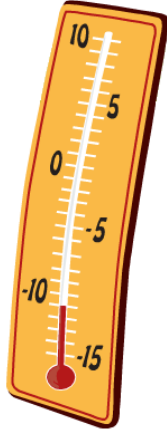
14. If $|x| = 3$, what are the possible values of x?

15. Identify the expression that is not equal to the other three. Explain your reasoning.

    A. $15-|-5|$ B. $|-4|+6$ C. $-|7+3|$ D. $|-10|$

_____

_____

16. Which integer represents the temperature shown on the thermometer?

    a. $-11°F$

    b. $-10°F$

    c. $10°F$

    d. $11°F$

Write and integer for each situation.

17. 2 feet below flood level _____

18. an elevator goes up 12 floors _____

Order each set of integers from least to greatest.

19. $\{3,-7,6\}$

20. $\{-2,-4,-6,-8\}$

_____, _____, _____

_____, _____, _____, _____

Evaluate each expression.

21. $|11-6|+3=$ _____

23. $|-9|+|5|=$ _____

22. $24-|4+7|=$ _____
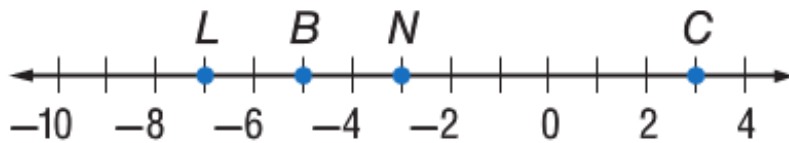
24. $|-10|÷2•|5|$ _____

25. Jasmine's pet guinea pig gained 8 ounces in one month. Write an integer to describe the amount of weight her pet gained. _____

26. Rachel recorded the low temperature for one week in the table. On which day was the low temperature the farthest from $0°F$? _____

Low Temperatures							
Day	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Temperature (°F)	2	−6	4	−8	2	0	−1

27. Which point has a coordinate with the greatest absolute value?

A. Point B   **B.** Point C   **C.** Point L   **D.** Point N

28. Which of the following statements about these real-world situations is *NOT* true?
    a. A $100 check deposited in a bank can be represented by +100.
    b. A loss of 15 yards in a football game can be represented by -15.
    c. A temperature of 20 below zero can be represented by -20.
    d. A submarine diving 300 feet under water can be represented by +300.

Spiral Review:

29. $18-10+3-7+27$

30. $\dfrac{7^2-5+12-2^1+3(2^2)}{11(2+1)^2}$