Name: _____ **Class:** _____ **Date:** _____

Study Sheet 1 8/25/14

Multiple Choice
Identify the choice that best completes the statement or answers the question.

1. Which number below represents the value of $|5|$
   a. -5 b. 5 c. 0 d. none of these

2. Which number below represents the value of $|-8|$
   a. -8 b. 8 c. 0 d. none of these

3. Which statement below is true about x and y
   if x = -7 and y = -3
   a. x = y b. x < y c. x + |y| = -10 d. x > y

4. Which statement below is true about x and y
   if x = -2 and y = 5
   a. x = y b. x < y c. x + |y| = -7 d. x > y

5. Which statement below is true about x and y
   if x = 7 and y = -5
   a. x = y b. x < y c. x + |y| = 2 d. x > y

6. Which statement below is true about x and y
   if x = 7 and y = |-7|
   a. x + |y| = 2 b. x > y c. x < y d. x = y

Short Answer

Evaluate each expression for the given value of the variable.

7. $3n - 5$ for $n = 2$

8. $-7 + 10y$ for $y = 7$

9. $7(z + 4) - 3$ for $z = 8$

10. $-7 + 3(n + 3)$ for $n = 5$

11. Evaluate the expression for the given values of the variables.

    $3x + 3y$ for $x = 10$ and $y = 2$

12. Write an algebraic expression for each word phrase.

    the difference of z and 23

13. Write an algebraic expression for each word phrase.

    3 times the sum of t and 15

14. If Salvador read 11 books from the library each month for *n* months in a row, write an expression to show how many books Salvador read all together.

    Evaluate the expression for *n* = 3.

15. Add. $14 + (-12)$

16. Add. $-14 + (-15)$

17. Add. $-13 + 14$

18. Evaluate $f + (-13)$ for $f = -8$.

19. Evaluate $a + (-7)$ for $a = 16$.

20. Subtract. $5 - (-6)$

21. Subtract. $-15 - 14$

22. Subtract. $-1 - (-5)$

23. Evaluate $-3 - a$ for $a = 1$.