First 9 Weeks Test 1 Study Sheet

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 $a = 1$.

24. Evaluate $-17 - p$ for $p = -10$.

25. The elevator in the newest skyscraper downtown goes from the top floor down to the lowest level of the underground parking garage. If the building is 420 feet tall and the elevator descends 490 feet from top to bottom, how far underground does the parking garage go?

26. Which property is illustrated: $5+2+3 = 2+3+5$

27. Which property is illustrated: $(5+2)+3 = 5+(2+3)$

28. Which property is illustrated: $(5+2)+3 = 3+(5+2)$

29. Which property is illustrated: $3(5+2) = 3(5) + 3(2)$

30. Which property is illustrated: $0(5+2) = 0$

31. Which property is illustrated: $5(1) = 5$

32. Which property is illustrated: $5 + 0 = 5$

33. Write an equation for the following sequence: 2, 5, 8, 11

34. Write an equation for the following sequence: 1, 6, 11, 16

35. Write an equation for the following sequence: 17, 7, -3, -13

36. Write an equation for the following sequence: 11, 22, 33, 44

37. Multiply $7(-10)$.

38. Multiply $-2(-5)$.

39. Multiply $7(-5)$.

40. Divide $\frac{30}{-3}$.

41. Divide $\frac{-32}{-4}$.

42. Simplify $-2 (-3 - 6)$.

43. Simplify $-3 (-1 + 7)$.

44. Simplify $2 (-8 - 2)$.

Study Sheet 1 8/25/14
Answer Section

MULTIPLE CHOICE

1. B
2. B
3. B
4. B
5. D
6. D

SHORT ANSWER

7. 1
8. 63
9. 81
10. 17
11. 36
12. $z - 23$
13. $3(t + 15)$
14. $11n$; 33 books
15. 2
16. –29
17. 1
18. –21
19. 9
20. 11
21. –29
22. 4
23. –4
24. –7
25. 70 feet
26. commutative
27. associative
28. commutative
29. distributive
30. multiplicative property of 0
31. identity property of multiplication
32. identity property of addition
33. y = 3x-1
34. y = 5x - 4
35. y = 10x + 7
36. y = 11x

37) -70
38) 10
39) -35
40) -10
41) 8
42) 18
43) -18
44) -20