Name: _____

Date: _____ Grade: _____

SECTION QUIZ 3-1



Remember:
Score an 85% or higher on all three quizzes and you may be exempt from the chapter test!



Congratulations! You have completed this section!
Answer the following questions to test your understanding of the material. When you are finished, hand in your quiz to your teacher. Each answer is worth 1.75 points.

Matching.

1. _____ positive number	(a) height above sea level
2. _____ graph	(b) represent numbers that do not yet have a value
3. _____ grouping symbols	(c) neither positive nor negative; zero
4. _____ negative numbers	(d) parentheses, brackets, curly brackets
5. _____ origin	(e) names a point in the Cartesian Coordinate System
6. _____ ordered pair	(f) distance below sea level
7. _____ altitude	(g) type of mathematical picture, shows relationship between sets of numbers
8. _____ "unknown"	(h) to the right of zero on the x-axis and above zero in the y-axis
9. _____ depth	(i) to the left of zero on the x-axis and below zero in the y-axis
10. _____ alphabet letters	(j) letter used to signify position of the answer in a math formula or expression

True or False.

11. _____ In subtraction of signed numbers, the sign of the subtrahend changes to the opposite sign before adding.

12. _____ When adding numbers of opposite sign, subtract the smaller from the larger and use the sign of the larger for the answer.

13. _____ A number line consists of a straight line with "tick" marks.

14. _____ A pie graph is actually in the shape of an oval or egg.

15. _____ Math order of operations dictate parentheses first, square brackets next and curly brackets last.

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Multiple Choice.

16. In division problems or fractions, if all the signs are positive, the answer will be _____.

(a) always positive (c) sometimes positive
(b) always negative (d) sometimes negative

17. Which of the following is **NOT** an example of the Distributive Property. _____

(a) $3(2 + 5) = 3 \cdot 2 + 3 \cdot 5$ (b) $2 + 5 - 6 = 7 - 6$ (c) $8(6 - 4) = 8 \cdot 6 - 8 \cdot 4$

18. The symbols, ×, •, ( ), may be used to denote the mathematical operation of _____.

(a) division (b) addition (c) subtraction (d) multiplication

19. The simplest type of graph is a _____ graph.

(a) pie (b) bar (c) line (d) number line

20. When two numbers of like sign are added, the sign of the answer _____.

(a) becomes positive (b) becomes negative (c) stays the same

21. The generalized mathematical expression, $(a + b) + c = a + (b + c)$, is an example of the _____

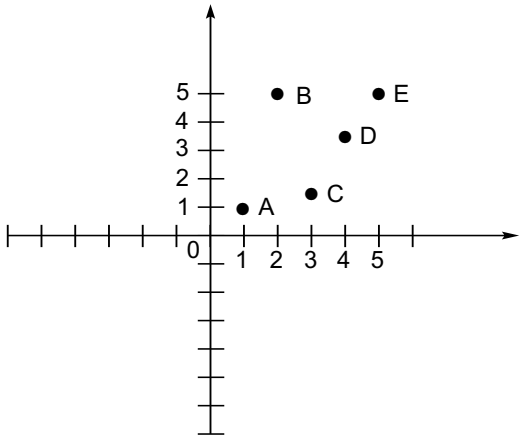
(a) Distributive Property of addition
(b) Associative Property of addition
(c) Distributive Property of multiplication
(d) Associative Property of multiplication

22. The generalized mathematical expression, $a(b - c) = (a \cdot b) - (a \cdot c)$, is an example of the _____

(a) Distributive Property of subtraction
(b) Distributive Property of multiplication
(c) Associative Property of multiplication
(d) Associative Property of subtraction

23. The ordered pair for point D in the following Cartesian coordinate system is _____

(a) 1, 1 (b) 2, 5 (c) 3, $1\frac{1}{2}$ (d) 4, $3\frac{1}{2}$ (e) 5, 5



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Fill in the blank by using words from the Word Bank.

WORD BANK			
addition	positive	graphs	grouping symbols
division	negative	number lines	ordered pairs
tick marks	point	straight line	

24. A _____ on a line graph is represented by a dot.

25. When multiplying or dividing numbers of like sign, the answer will always be _____.

26. _____ are used to signify proper order of operations in math.

27. Fractions are another way of signifying a _____ problem.

28. To make a graph in the Cartesian coordinate system, you must connect the dots with (a) _____.

Determine which number is greater than, >, or less than, <, and place the correct symbol on the blank between the numbers.

29. 0 _____ -6 **30.** -2 _____ 2 **31.** -2 _____ -3 **32.** 4 _____ -5

Determine a value for the unknown in the following problems to make the equation a true statement.

33. $x - 3 = 5$ $x =$ _____

34. $a + 2 = 4$ $a =$ _____

35. $y + 80 = 110$ $y =$ _____

Use the Distributive Property to simplify the following expressions.

36. $4(2 + 4) =$ _____

37. $5(3 + 2 - 1) =$ _____

Perform the indicated operation.

38. $-6 + {}^{-}6 =$ _____

39. $-17 + 17 - {}^{+}3 =$ _____

40. $5 - 3 - {}^{-}2 + 11 - {}^{+}3 =$ _____

Determine the final sign of the following multiplication problems: (place a + or - sign in the blank beside the expression)

41. $3 \times (-6) \div -2 \times 6$ _____

42. $5 \times (-5) \times (4)$ _____

43. $-21 \times -4 \times -6 \times -121$ _____

Find the solution to the following expressions. Be sure to watch your signs.

44. $40 \times (-1) \div 8 =$ _____

45. $7 \div (-7) \times (-6) =$ _____

46. $3 \times 3 \times (-1) \times (-4) \times (-2) =$ _____

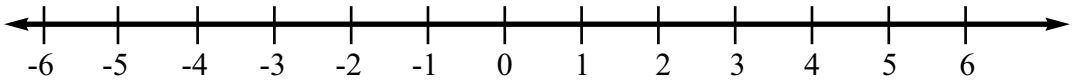
Work the following problems.

47. $5 + (3 \bullet 1) - 2\{2[1(3 + 1)]\} =$ _____

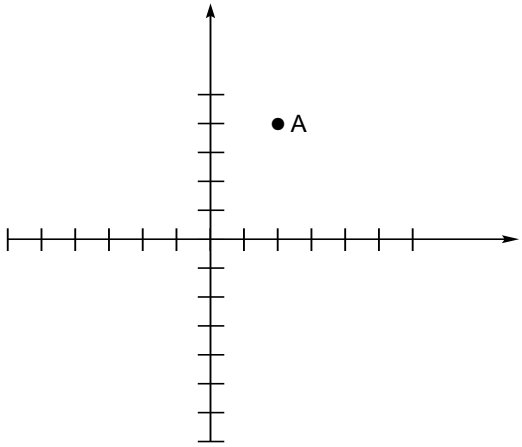
48. $5(2) - [2(6 + 1) + 3] =$ _____

49. $(4 \bullet 5) - [60 \div (3 + 2)] =$ _____

50. Plot the number $3\frac{1}{2}$ on the number line below.



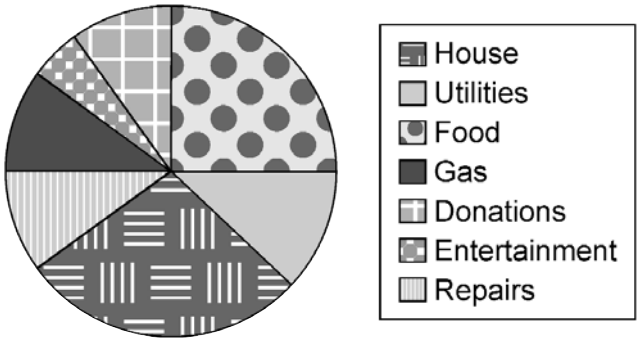
51. On the grid below draw a line graph using the following points: A(2, 4), B(3, 1), C(5, 5), and D(4, 3). (A line graph is plotted left to right, just like reading a printed page.) The first point A(2, 4) is plotted for you. Be sure to connect the points (dots).



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52. Select the correct answer by studying the following pie graph of a family's household expenditures. If the entertainment category represents 5% of the family's expenditures, and three other categories are twice as large, which three expense categories are 10% each? _____

(a) gas, food, repairs
(b) repairs, donations, gas
(c) donations, repairs, utilities
(d) house, food, utilities



Life Principles: Fill in the blank.

53. *"Success is shooting at and hitting a _____."*

54. *"By attempting the _____, we may obtain the possible."*

55. *"You are _____ by the company you keep."*

56. *"Your _____ determines your altitude."*

57. *"Birds of a feather _____."*