Review Packet for Incoming Algebra 1 Honors Students

Name_____Teacher_____

Evaluate each expression using order of operations

1. $57 \cdot 29 + 89$_____ 2. $187 - 34 \div 2$_____ 3. $12 - 7 \cdot 3 + 9^2$ _____

4. $80 \div 4 \cdot 2 - 2 \cdot 2$ _____ 5. $3 (4 + 7 \cdot 2) - 100 \div 50$ _____

6. $2 [3 (4 \cdot 5 + 2) - 1] - 4$ _____

Given a = 5, b = 3 and c = 4, evaluate the algebraic expression

7. $a + b + c$ _____ 8. $a^2 + b^2$ _____ 9. $a^2 - b^2$ _____ 10. $(a + b) - c$ _____

11. $a^2 + b^2 + c^2$ _____ 12. $b^2 + (c + a)^2$ _____

Simplify the following

13. $- (- 10)$ _____ 14. $| - 20 |$ _____ 15. $| 6 - 7 |$ _____

Simplify the following algebraic expressions

16. $3 (x + y) + 7x$ _____ 17. $x + y - (3x + y)$ _____18. $(4x - 2) - (5x - 3)$ _____

19. $- 3 (2 - 8m)$ _____ 20. $(3 - a) + (4a - 3b + 2) - (1 - b)$ _____

21. $\frac{- 18x + 12}{6}$ _____ 22. $\frac{32y + 24}{8}$ _____

Solve each equation for the variable

23. $x + 2 = 5$ _____ 24. $- x + 2 = 3$ _____ 25. $3x = 15$ _____

26. $- 3 - x = 2$ _____ 27. $\frac{1}{3} x = 9$ _____28. $4x - 8 = 40$ _____

29. $15y + 31 = 61$ _____ 30. $5(3x + 5) = 4x - 8$ _____

Graph each linear equation on graph paper using a table of values.

31. $y = x + 2$ 32. $y = 3x - 1$ 33. $y = x$

34. $x + y = 2$

Simplify:

35. $-2+9$ _____ 36. $6+(-6)$ _____ 37. $-8-2$ _____

38. $-3.4+7$ _____ 39. $-42 \div 6$ _____ 40. $-18 \div -6$ _____

41. $0 \cdot -9$ _____ 42. $3 \div 0$ _____ 43. $0 \div 3$ _____

44. $-17 \cdot 3$ _____

Complete the following chart.

Fraction	Decimal	Percent
45. _____	.009	_____
46. $\frac{1}{8}$	_____	_____
47. _____	_____	135%
48. _____	.8	_____
49. _____	_____	1.8%
50. $\frac{1}{3}$	_____	_____
51. _____	_____	.05 %

52. Find 40 % of 50 _____

53. 30 is 60% of what number? _____

54. What % of 80 is 60? _____

55. 2 is what % of 100? _____

56. Find 180 % of 40 _____

57. Find 35 % of 50 _____

58. The original price of a car is $15,000 Find the percent of decrease if the sale price of that same car is $ 13, 050 _____

59. A house originally had 1700 square feet but added an extra 255 square feet. What was the percent of increase? _____

60. The sale price of a television set is $280 which represents 30% off the original price. What was the original price of the television? _____