Algebra 1   Name: _____

Basics Review – Distributive Property/Order of Operations   Period: _____

Add, Subtract, Multiply, or Divide (2 points each):

1. $-5 + 11$ _____

2. $5 \cdot -8$ _____

3. $15 \div -3$ _____

4. $-4 + -9$ _____

5. $\dfrac{25}{-5}$ _____

6. $-3(2)(-6)$ _____

7. $6 - 4 - 5 - 3$ _____

8. $9 - 12 + 4 - 2$ _____

9. $5 + (-2) - 7 + 5$ _____

10. $(-9)(8)(10)(20)(0)$ _____

11. $11 - 3 - 12$ _____

12. -2^4 _____

13. $(-2)^4$ _____

14. $|-6 - 7|$ _____

15. $|-5| - 7 - \dfrac{2}{3}$ _____

16. $-1.6 + 3.2$ _____

17. $-\dfrac{2}{7} - \dfrac{1}{5}$ _____

18. $0 \div 16$ _____

Simplify using Order of Operations (4 points each):

19. $(8 - 11)(4 - 10)$

20. $-36 \div [-27 \div (-9)]$

21. $(-3 + 2)^2 \cdot (-5 + -9)$

22. $[(16 - 24) \div (7 - 11)] \div (6 - 8)$

23. $-80 \div 10 \cdot 4 \div (-4) + 5 - 9$

24. $-4(5^2 \div 5)^2 + [-12 - 6 + 2^3 \cdot 4 + (-8 + 4^2)] \cdot (-3)^3$

25. $[(12 - 9) \cdot 9 - 6^2] + -8(-9 + 4)^3$

Simplify by using the Distributive Property and Combining Like Terms (3 points each):

26. $5(2x + 10)$

27. $-(7y + 6)$ 30. $-3m^2 + 10n^3 - 6m^2 - 12n^3$

28. $(5p - 7)(-2)$

29. $2(5x + 3) + 4(-3x - 6)$

Simplify using the Distributive Property and THEN evaluate (there are TWO answers for each problem!)
(2 points for each answer):

31. $5m - 3(4 - m) + 8$ when m = 3

Simplify: _____   Evaluate: _____

32. $-(-6m + 3) - 4m + 7$ when m = 4

Simplify: _____   Evaluate: _____

Define a variable (using a "Let" statement) and write an expression for each phrase (3 points each):

33. 12 more than the product of a number and 10

34. 7 minus a 5 times a number

True or False (1 point each):

35. _____   The quotient of two negative numbers is always positive.

36. _____   A coefficient is a number that is not being multiplied by a variable.

37. _____   The difference of two negative numbers is always negative.

38. _____ The fraction $\dfrac{3}{5}$ is a rational number.

39. _____ Terms are like when the variables and exponents match exactly.

40. _____ The absolute value of |-9| is less than the absolute value of |–7 – 3|.

41. _____ You studied for this test.