**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_  
Algebra Support Test 1 Number Sense Form A**

**Multiple Choice.**

|  |  |
| --- | --- |
| 1. Which of the following does not show the Commutative Property of Addition?  A. ab = ba B. 9 + x = x + 9  C. 3x + 4y = 4y + 3x D. a + b = b + a | 1. \_\_\_\_\_\_\_\_\_\_\_ |
| 2. Which property of Addition does 6 + 0 = 6 illustrate?  A. Distributive Property B. Commutative Property  C. Zero Property D. Identity Property | 1. \_\_\_\_\_\_\_\_\_\_\_ |
| 3. Which property is used in the following expression?  4(3 + 2) = 12 + 8   1. Associative Property of Multiplication 2. Distributive Property 3. Associative Property of Addition 4. Commutative Property of Addition | 1. \_\_\_\_\_\_\_\_\_\_\_ |
| 4. Which equation shows the Multiplicative Inverse of a Number?  A. a x1 = a  B. a + -a = 0  C. a x (1/a) = 1  D. a x 0 = 0 | 4. \_\_\_\_\_\_\_\_\_\_\_\_ |
| 5. Which property is used in the following expression?  (4 + a) + 6 = 6 + (4 + a)   1. Associative Property of Addition 2. Commutative Property of Addition 3. Distributive Property 4. Associative Property of Multiplication | 1. \_\_\_\_\_\_\_\_\_\_\_ |
| 6. Simplify this expression: 4( y + z)  A. 4yz B. 4z +y C. 4y + 4z D. 4y + z | 1. \_\_\_\_\_\_\_\_\_\_\_ |
| 7. Find the GCF of 48 and 56.  A. 6 B. 8 C. 7 D. 12 | 1. \_\_\_\_\_\_\_\_\_\_ |
| 8. What is the prime factorization of 40?  A.  B.  C.  D. | 8. \_\_\_\_\_\_\_\_\_\_\_\_ |
| Factor each monomial.  9. 18 10. | 1. \_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_ |
| Find the GCF  11. 21, 42 12. 40, 60 | 1. \_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_ |

**Simplify each expression by combining like terms.**

|  |  |
| --- | --- |
| 1. 4p + 8p | 13.\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. 11 + 8k + k | 14.\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. 3n + 2 + 6n + 7 | 15.\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. 5r – r | 16.\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. 19r + 4 + 8r | 17.\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. 5(v+3) | 18.\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. -3(3- 8b) | 19.\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. –6 + 3(b – 9) | 20.\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. -9(3 + 7x) | 21.\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. 2(1 + 9b) + 6(1 +2b) | 22.\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Simplify the following Fractions:**

1.  24.  23. \_\_\_\_\_\_\_\_\_\_\_\_\_

24. \_\_\_\_\_\_\_\_\_\_\_\_\_

25. 26. 25. \_\_\_\_\_\_\_\_\_\_\_\_\_

26. \_\_\_\_\_\_\_\_\_\_\_\_\_

**Perform the Operation. Circle your answers.**

27. + 27. \_\_\_\_\_\_\_\_\_\_\_\_

a. b. c. d.

28. × 28. \_\_\_\_\_\_\_\_\_\_\_\_

a. b. c. d.

**Perform the Operation. Answers need to be in simplest form.**

29.  30.  31. 

32.  33.  34. +

35. Express  as a percent. 35. \_\_\_\_\_\_\_\_\_\_\_

1. 2.5% B. 250% C. 0.4% D. 40%

36. Express 0.305 as a percent. 36. \_\_\_\_\_\_\_\_\_\_\_

1. 0.305% B. 0.00305% C. 30.5% D. 3.05%

37. Express 12% as a fraction in simplest form. 37. \_\_\_\_\_\_\_\_\_\_\_

1.  B.  C.  D. 

38. Express 3.4% as a decimal. 38. \_\_\_\_\_\_\_\_\_\_\_\_

1. 340 B. 0.034 C. 0.34 D. 3.4

39. Express 0.375 as a fraction 39. \_\_\_\_\_\_\_\_\_\_\_\_

40. Express as a decimal 40. \_\_\_\_\_\_\_\_\_\_\_\_\_

**Round these numbers to the nearest hundredth.**

41. 2.3487 41. \_\_\_\_\_\_\_\_\_\_\_

42. 4.799 42. \_\_\_\_\_\_\_\_\_\_\_

**Round these numbers to the nearest thousandth.**

43. 4.58547 43. \_\_\_\_\_\_\_\_\_\_\_

44. 0.64386 44. \_\_\_\_\_\_\_\_\_\_\_

**Use the Order of Operations to solve the following:**

45. -80 ÷ -10 45. \_\_\_\_\_\_\_\_\_\_\_

46. (-1 + 6) – 5 46. \_\_\_\_\_\_\_\_\_\_\_

47. (8 – 5)2 ÷ 3 47. \_\_\_\_\_\_\_\_\_\_\_

48. 4 ÷ 4 – 6 48. \_\_\_\_\_\_\_\_\_\_\_

49. 8 – 6 × 2 + 3 49. \_\_\_\_\_\_\_\_\_\_\_

50. -12 ÷3 + 4 50. \_\_\_\_\_\_\_\_\_\_\_