

## PRE-ALGEBRA QUARTER 1 TEST REVIEW Part II

43. Write 67,000 in **scientific notation**.

44. Write 0.0000123 in **scientific notation**.

45. Write  $1.23 \times 10^5$  in **standard form**.

46. **Find the product:**  $(2.3 \times 10^{-5})(3.2 \times 10^7)$

47. **Find the quotient:**  $\frac{8.4 \times 10^4}{4 \times 10^2}$

48. **Simplify:**  $\frac{(8 \times 10^3)(3 \times 10^4)}{2 \times 10^2}$

49. What is the reciprocal of  $2\frac{3}{4}$  ?

50. What is the coefficient for the expression  $-5x^2$  ?

51. What type of a number is  $\sqrt{18}$  ?

52. What type of a number is  $-5$  ?

53. Convert  $-2\frac{1}{5}$  to an improper fraction

54. Evaluate  $6 + 10 \div (-2) \times 3$

55. A pair of pants cost \$28.99 per pair. Write an expression that represents the total cost of  $x$  pairs of pants.

a.) Does the 28.99 represent a constant or a coefficient?

56. What is the product of  $(3x^2)$  and  $(-5x^5)$  ?

57. Simplify  $3 - 5(2x + 6)$

58. Simplify  $-2(y - 7) - 3y$

59. A taxi ride costs \$8 to ride plus an additional \$2.50 per mile. Write an expression to represent riding  $m$  miles.

60. Evaluate  $\sqrt{49} + \sqrt{64}$

61. If  $a > 0$  and  $b < 0$  , what will be the sign of  $a^2b^2$  ?

62. What is the perimeter of an equilateral triangle (3 congruent sides) with side lengths  $2x - 1$  ?

63. Order from least to greatest:  $2.5 \times 10^{-2}$        $8.39 \times 10^{-5}$        $4.62 \times 10^2$        $7.1 \times 10^{-2}$

64. Simplify  $-4x^2(5x + 6)$

65. Factor the following expression using the GCF:  $18x - 27$

66. Factor the following expression using the GCF:  $20x^2 + 30x$