

PRE-ALGEBRA QUARTER 1 TEST REVIEW Part II

43. Write 67,000 in scientific notation 6.7×10^4
44. Write 0.0000123 in scientific notation 1.23×10^{-5}
45. Write 1.23×10^5 in standard form 1 23 000
46. Find the product: $(2.3 \times 10^{-9})(3.2 \times 10^7)$
 7.36×10^{-2}
47. Find the quotient: $\frac{8.4 \times 10^4}{4 \times 10^2}$ 2.1×10^2
48. Simplify: $\frac{(8 \times 10^3)(3 \times 10^4)}{2 \times 10^2}$ $\frac{24 \times 10^7}{2 \times 10^2} \rightarrow 12 \times 10^5 \rightarrow 1.2 \times 10^6$
49. What is the reciprocal of $2\frac{3}{4}$? $\frac{4}{11}$
50. What is the coefficient for the expression $-5x^2$? -5
51. What type of a number is $\sqrt{18}$? IRRATIONAL
52. What type of a number is -5 ? INTEGER $\frac{1}{2}$ RATIONAL
53. Convert $-2\frac{1}{5}$ to an improper fraction $-\frac{11}{5}$
54. Evaluate $6 + 10 + (-2) \times 3$
 $6 + (-5) \times 3$
 $6 + (-15)$ -9

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

$28.99x$

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

coefficient

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

$-15x^7$

57. Simplify $3 - 5(2x + 6)$
 $3 - 10x - 30$

$-10x - 27$

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

$-2y + 14 - 3y$

$-5y + 14$

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

$2.50m + 8$

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

$7 + 8$

15

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

$\oplus \ominus$

$(+)^2 (-)^2$

will be \oplus

The sign will be positive because all numbers squared are positive

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



$2x-1 + 2x-1 + 2x-1$

$6x-3$

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

$8.39 \times 10^{-5}, 2.5 \times 10^{-2}, 7.1 \times 10^{-2}, 4.62 \times 10^2$

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

$-20x^3 - 24x^2$

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

$9(2x - 3)$

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

$10x(2x + 3)$