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Algebra I Unit I Review

Find the place value of each digit.

1. 26,915 ⓐ 1 ⓑ 2 ⓒ 9 ⓓ 5 ⓔ 6	2. 58,129,304 ⓐ 5 ⓑ 0 ⓒ 1 ⓓ 8 ⓔ 2

Name each number using words.

3.   3,975,284

Write each number as a whole number using digits.

4. Three hundred sixteen	5. Ninety million, twenty thousand, seven

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Round each number to the nearest ⓐ ten, ⓑ hundred, and ⓒ thousand.

6. 26,846	7. 3,972,849

Find the prime factorization.

8. 420	9. 1560

Find the least common multiple.

10. 24, 30	11. 60, 75

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Algebra I Unit I Review

Translate from algebra to English.	
12. 25 - 7	13. $5 \cdot 7$
14. $42 \geq 28$	15. $3 \leq 20 \div 4$

Determine if each is an expression or equation.	
16. $6 \cdot 6 + 9x$	17. $x - 9 = 45$

Simplify each expression.	
18. $6 + 10/2 + 3$	19. 3^5
20. $20 \div (4 + 6) \cdot 8$	21. $(4 + 3)^2$

Evaluate the expressions.	
22. $9x + 8$ when $x = 2$	23. x^4 when $x = 4$
24. 3^x when $x = 3$	25. $2x + 4y - 9$ when $x = 7$, $y = 8$

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Algebra 1 Unit 1 Review

Identify the coefficient of each term.	
26. 14n	27. -y

Identify the like terms.	
28. 3n, n^2, 19, $12m^2$, 4, $3n^2$	29. 6, $18d^4$, 9g, $9d^4$, 5g, 10g

Simplify the expressions by combining like terms.	
30. 17z + 10z	31. 9x + 4x + 12

32. $7y - 5 + 4y - 9$

Translate the following phrases into algebraic expressions

33. the sum of nine and five	34. the difference of x and 10	35. the product of 6 and k

36. Allie bought a skirt and a blouse. The skirt cost $16 more than the blouse. Let b represent the cost of the blouse. Write an expression for the cost of the skirt.

Order each of the following pairs of numbers using < or >.

37. 6 ____ 2	38. -7 ____ 8	39. -9 ____ -4	40. 3 _____ -10

Find the opposite of each number.	
41. -8	42. 9

4

Algebra 1 Unit 1 Review

Simplify.	
43. -(-28)	44. -(-54)
45. -x when x = -3	46. -p when x = 4

47. |-8|	48. -|-25|	49. |4|	50. |0|

Fill in <, >, or = for each of the following pairs of numbers.		
51. -9 _____ |-9|	52. -|-34| _____ |-34|	53. 11 _____ -|-11|

Simplify.	
54. 8(14 − 2 |-2|)	55. 140 + (-75) + 67
56. -5 − (-1)	57. -15 − (-28) + 5
58. -16 − (-4 + 1) - 7	59. -8(-2) − 3(-9)
60. -4 · 2 · 11	61. -10(-5) ÷ (-25)
62. 24 − 3(2 − 10)	63. 6x − 5y + 15 when x = 3 and y = -1

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Algebra 1 Unit 1 Review

Simplify each fraction.		
64. 7/21	65. -168/192	66. 11x/11y

Multiply or divide.	
67. $\dfrac{7}{12}\left(-\dfrac{8}{21}\right)$	68. $-28b\left(-\dfrac{1}{4}\right)$
69. $-\dfrac{4}{5} \div \dfrac{4}{7}$	70. $\dfrac{7x}{12} \div \dfrac{21x}{8}$
71. $-\dfrac{\frac{x}{6}}{-\frac{8}{9}}$	72. $\dfrac{15 + 9}{18 + 12}$
73. $\dfrac{12 \cdot 9 - 3^2}{3 \cdot 18}$	74. $\dfrac{7 + 3(5)}{-2 - 3^2}$

Add or subtract.		
75. $-\dfrac{1}{8}+\left(-\dfrac{5}{8}\right)$	76. $-\dfrac{8}{d}-\dfrac{3}{d}$	77. $-\dfrac{7}{20}-\left(-\dfrac{5}{8}\right)$

Write as a decimal.	
78. Eight and three hundredths	79. nine thousandths

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Algebra I Unit I Review

Name the decimal.	
80. 0.005	81. 1.45

Simplify.	
82. -4.2 + (-9.3)	83. 100 – 65.89

Simplify.

84. 0.3(3.14)	85. (0.09)(24.78)	86. 12/0.08

Write each as a decimal, fraction, and percent.

87. 0.08	88. 0.425
89. $-\dfrac{4}{5}$	90. $\dfrac{5}{9}$
91. 5%	92. 115%
93. 0.009	94. 1.5

Simplify	
95. $\sqrt{64}$	96. $-\sqrt{25}$

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Algebra 1 Unit 1 Review

Classify each number as rational, irrational, whole, natural, real, not real, or integer

97. -4, 0, $\sqrt{16}$, $5.432...$, $13/3$, 10.5

Order each of the following pairs of numbers using <, >, or =:

98. -1 _____ $-1/8$	99. $-7/9$ _____ $-4/9$	100. 0.9 _____ 0.61
101. -0.27 _____ -0.3	102. 0.7 _____ $-3/4$	103. 0.8 _____ 0.43

Simplify.

104. $\left(\frac{7}{12}+\frac{4}{5}\right)+\frac{1}{5}$	105. $11x + 8y + 16x + 15y$	106. $-18 \cdot 15 \cdot (2/9)$

Find the additive inverse:

107. ¼	108. -14

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Algebra 1 Unit 1 Review

Find the multiplicative inverse:	
109. -10	110. 4/9
111. 2.1	112. 0.9

Simplify.	
113. $7(c + 8)$	114. $-8(-6w - 13)$
115. $(y - 4) - (6a + 9)$	116. $4(x - 3) - 8(x - 7)$

Convert the measurements.	
117. 5 ft. 4 inches = _____ in.	118. 14,179 ft = _____ miles
119. 1.7 m = _____ cm	120. 13g = _____ mg