

Review packet for students entering Algebra 1 (CP and Honors) class.

COMPLETE THE PROBLEMS, SHOWING ALL YOUR WORK. DO NOT USE A CALCULATOR OR AI. USE THE ANSWER SHEET ATTACHED AT THE END OF THE THIS PACKET. REMEMBER, NO CREDIT WILL BE GIVEN UNLESS ALL THE WORK IS SHOWN.

OPERATIONS WITH WHOLE NUMBERS.

1. $70035 + 197 =$
2. $1038 + 87 + 103 =$
3. $7005 - 127 =$
4. $3896 - 12 - 1605 =$
5. $5031 \cdot 102 =$
6. $207 \cdot 73 =$
7. $16 \cdot 12 \cdot 7 =$
8. $221 \div 13 =$
9. $7608 \div 12 =$
10. $3672 \div 12 \div 6 =$

OPERATIONS WITH INTEGERS.

11. $12 + (-17) =$
12. $-23 + (-5) =$
13. $-5 + 7 + (-3) =$
14. $-105 - 3 =$
15. $51 - 76 =$
16. $-37 - (-12) =$
17. $-6 - (-3) - 5 =$
18. $6 \cdot (-17) =$
19. $-23 \cdot (-5) =$
20. $68 \div (-17) =$
21. $-221 \div (-13) =$

OPERATIONS WITH DECIMALS.

22. $7.906 + 1.72 =$
23. $34.05 + 10.31 + 7.4 =$
24. $10.056 - 6.83 =$
25. $400 - 12.87 - 103.5 =$
26. $4.23 \cdot 5.8 =$
27. $31.02 \cdot 4.91 =$
28. $59.7 \div 0.4 =$
29. $26.714 \div 3.61 =$

OPERATIONS WITH FRACTIONS.

30. Simplify the fraction: $\frac{18}{144} =$
31. $\frac{4}{7} + \frac{9}{28} =$
32. $\frac{3}{5} + \frac{2}{7} =$
33. $\frac{3}{5} + \frac{7}{9} + \frac{4}{15} =$
34. $\frac{3}{4} - \frac{2}{7} =$
35. $\frac{7}{9} - \frac{4}{15} =$
36. $\frac{7}{8} - \frac{1}{5} - \frac{3}{10} =$
37. $\frac{10}{19} \cdot 38 =$
38. $\frac{3}{20} \cdot \frac{5}{18} =$
39. $\frac{7}{8} \div 28 =$
40. $\frac{5}{16} \div \frac{35}{48} =$

MIXED NUMBERS.

41. Change to fraction: $5\frac{3}{7} =$

42. Change to mixed number:

$$\frac{108}{31} =$$

43. $5\frac{2}{9} + 7\frac{8}{15} =$

44. $9\frac{4}{5} + 8\frac{1}{2} =$

45. $6 - 2\frac{5}{6} =$

46. $7\frac{8}{15} - 5\frac{2}{9} =$

47. $2\frac{5}{6} - 1\frac{1}{7} =$

48. $10\frac{2}{5} - 7\frac{13}{35} =$

49. $3\frac{1}{3} \cdot 6\frac{3}{5} =$

50. $2\frac{3}{7} \cdot \frac{1}{17} =$

51. $2\frac{1}{3} \div 1\frac{3}{4} =$

52. $\frac{3}{7} \div 3\frac{3}{5} =$

THE ORDER OF OPERATIONS.

53. $3 + 18 \div 3 - 4 =$

54. $8 - 14 \div (9 - 2) =$

55. $4 - 24 \div 2^3 =$

56. $2(9 - 2)^2 - 6 \cdot 3 + 4^2 =$

57. $2 \cdot (7 + 5) \div 4 =$

58. $58 + 2 \cdot 5 - 12 \div 4 =$

59. $72 \div [(15 - 9) \cdot 2] =$

60. $81 \div 9 \cdot 6 - 5 \cdot 8 =$

61. $\frac{49 - 11}{12 + 7} =$

62. $\frac{2 + (17 - 3) \div 7}{8 - 3 \cdot (5 - 7)} =$

SIMPLIFYING AND EVALUATING

EXPRESSIONS.

63. Evaluate: $35 + 4x + y =$ for

$$x = -7, y = 5$$

64. Evaluate: $12x - 7y \div (z - 6) =$

for $x = 3, y = 4, z = 13$

65. Simplify: $2(c + 4) + 3c =$

66. Simplify: $3(2x + 5) - 3(x + 4) =$

67. Simplify: $4m - 6m - 7m =$

EQUATIONS.

68. $-15 \cdot z = 0$

69. $r - 13 = -5$

70. $\frac{k}{-9} = 16$

71. $157 = c + 48$

72. $\frac{x}{8} + 12 = -5$

73. $4r + 41 + 5r = 104$

74. $17 + 5(t + 1) = 37$

75. $16z - 18 = 4 + 5z$

76. $6(x + 8) = 5x + 4$

77. $\frac{2x - 12}{5} = -8$

INEQUALITIES.

78. Solve and graph: $-5 \leq p - 2$

79. Solve and graph: $\frac{a}{-5} > 9$

80. Solve and graph: $9 + 5d \geq 44$

81. Solve and graph:

$$3y - 7 > -32 + 8y$$

EXPONENTS. RULES OF EXPONENTS.

NEGATIVE AND ZERO EXPONENT.

SCIENTIFIC NOTATION.

82. Write the answer using

exponents: $6^5 \cdot 6^9 =$

83. Write the answer using

exponents: $\frac{a^6}{a^3} =$

84. Simplify: $\frac{50x^2x^3}{12x^4} =$

85. Simplify: $\frac{14m^2a^3m}{21a^2m^4} =$

86. Write using only positive

exponents: $5w^{-2} =$

87. Write using only positive

exponents: $s^3t^0 =$

88. Write in scientific notation:

$0.00043 =$

89. Write in scientific notation:

$16,000,000 =$

90. Write in standard form:

$8.23 \times 10^8 =$

91. Write in standard form:

$2.1 \times 10^{-3} =$

RATIOS. RATES. PROPORTIONS.

92. Find the unit rate: $\frac{58mi}{4h} =$

93. Write equivalent ratio: $\frac{4}{5} = \frac{?}{35}$

94. Solve the proportion: $\frac{b}{6} = \frac{75}{90}$

95. Solve the proportion: $\frac{3.8}{95} = \frac{5.7}{s}$

THE GCF AND THE LCM.

96. Find the GCF of the numbers 15 and 35

97. Find the GCF of the numbers 6, 36, and 60

98. Find the GCF of the monomials $16x^2$ and $68x$

99. Find the GCF of the monomials $3y$, $9y^2$, and $12y^3$

100. Find the LCM of the numbers 9 and 15

101. Find the LCM of the numbers 3, 4, and 15

102. Find the LCM of the monomials $4s^3$ and $36s^2$

103. Find the LCM of the monomials $10n^2p$ and $16np$

PERCENTS.

104. Write as percent: $0.045 =$

105. Write as percent: $\frac{7}{12} =$

106. Write as fraction in simplest form: $15\% =$

107. Write as decimal: $3.7\% =$

108. What percent of 140 is 28?

109. 117 is 45% of what number?

110. What number is 0.5% of 3400?

111. Find the percent of change from 40 to 62.

112. Write the formula for simple interest.

113. Write the formula for compound interest.

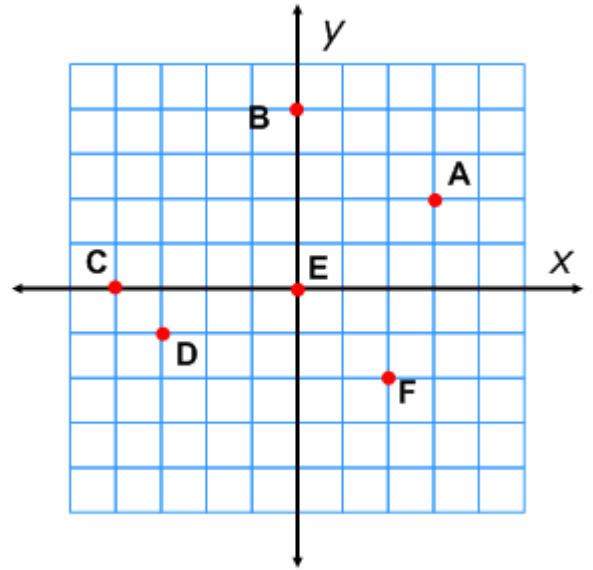
COORDINATE PLANE.

114. Name each quadrant's number.

115. Graph each point:

A(2,0), B(-3,-4), C(2,-5), D(-1,4), E(1,2), F(0,-3)

116. Write the coordinates of the points:



SQUARE ROOTS.

117. Find the two square roots of each number:

a) 49

b) 2500

c) 441

118. Between which two integers is the square root:

a) $\sqrt{123}$

b) $-\sqrt{27}$

Name: _____ Due Date: First Day of School

Required Answer Sheet (Summer Packet - Algebra 1 CP and Honors)

OPERATIONS WITH WHOLE NUMBERS.

1.	2.
3.	4.
5.	6.
7.	8.

9.	10.
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OPERATIONS WITH INTEGERS.

11.	12.	13.
14.	15.	16.

17.	18.	19.
20.	21.	

OPERATIONS WITH DECIMALS.

22.	23.
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24.

25.

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33.	34.	35.
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MIXED NUMBERS.

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THE ORDER OF OPERATIONS.

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SIMPLIFYING AND EVALUATING EXPRESSIONS.

63.

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66.

67.

EQUATIONS.

68.

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INEQUALITIES.

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THE GCF AND THE LCM.

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100.	101.
102.	103.

PERCENTS.

104.	105.
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106.

107.

108.

109.

110.

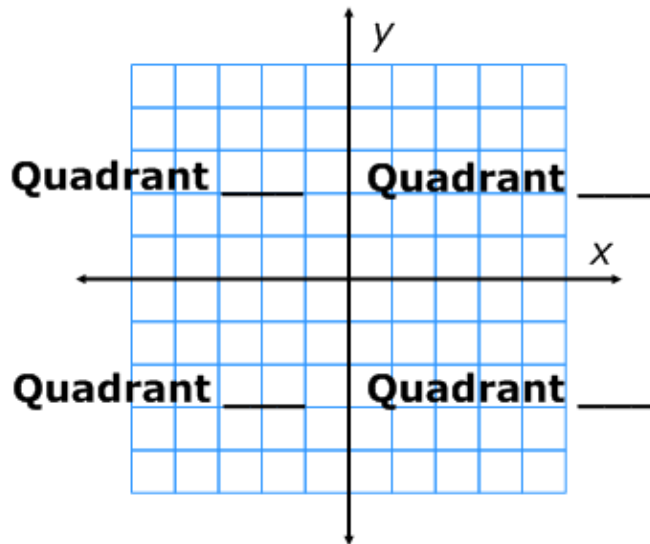
111.

112.

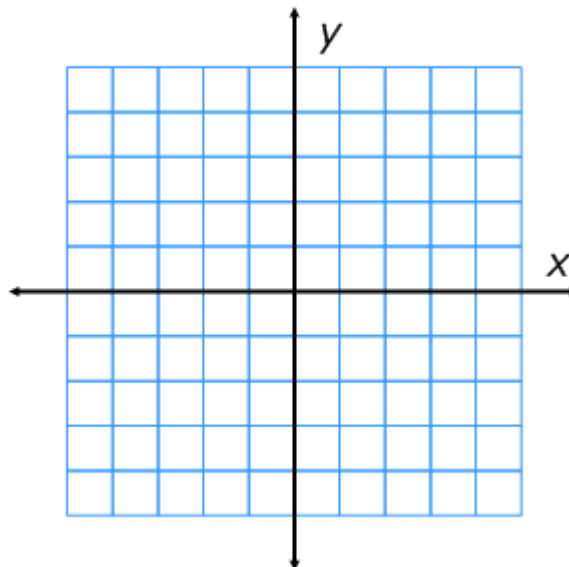
113.

COORDINATE PLANE.

114.



115.



116. A(,), B(,), C(,), D(,), E(,), F(,)

SQUARE ROOTS.

117.

a)	b)	c)
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118.

a)	b)
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