Algebra Review Packet KEY

1. 48

2. 29

3. 72

4. 7

5. -149

6. 360

7. 211

8. $\frac{13}{12}$

9. $\frac{3}{4}$

10. $\frac{19}{6}$

11. 7.45

12. $(8 + 12) \div (4 \times 5) = 1$

13. -9

14. 9

15. $\frac{4}{9}$

16. 194.5

17. 0.2

18. 57.0

19. -35.0

20. 211.90

21. 3

22. 7.18

23. 713.86

24. Commutative

25. Additive identity

26. Associative

27. Reflexive

28. Symmetric

29. Addition and multiplication: changing the order results in the same answer

    Subtraction: changing the order will result in a negative (ex: 8-2=8 but -8=-6)

    Division: results in a different answer (ex: 4/8 = ½, but 8/4=2)

30. X=7

31. X=26

32. X=9.5

33. X=13

34. X=3.5

35. X=16

36. X=19

37. -2.8

38. X=9.5

39. X=0

40. X=2

41. X=-8

42. X=1

43. X=26

44. X=68

45. $F = \left(C \times \frac{9}{5}\right) + 32$

$F - 32 = C \times \dfrac{9}{5}$

$\dfrac{5}{9}(F - 32) = C$

$C = \dfrac{5(F - 32)}{9}$

46. $f = \frac{2d-9}{3}$

47. $w = \frac{9}{r}$
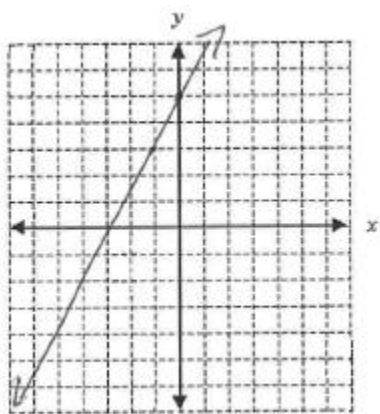
48. $g = \frac{p}{180} + 9$

49. $x = \frac{-t+10}{d}$

50. $m = -3$

51. $m = \frac{2}{3}$

52. $m = \frac{-1}{2}$

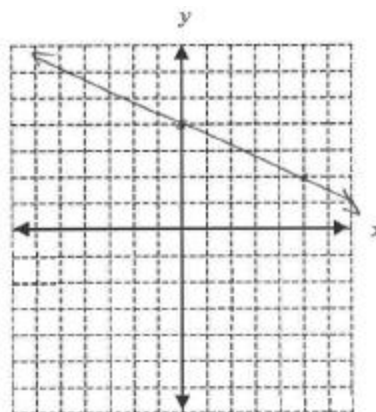53. Slope = 2

y-intercept = 5

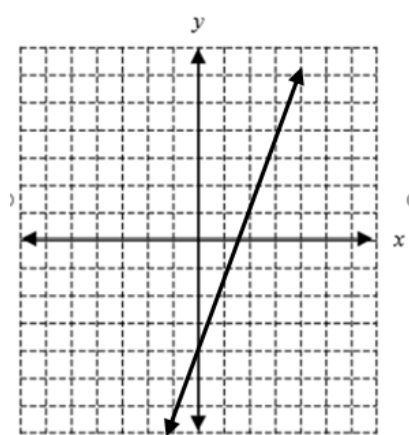54. Slope = $\frac{-2}{5}$

y-intercept = 4

55. Slope = 3

y-intercept = -4

56. 4x-12

57. 5x+3

58. $\frac{x+2}{8}$

59. 2x-7=18

60. 90-x

61. 14.30

62. 82.22%

63. 121.43%

64. $\frac{1}{2}, \ \frac{3}{4}, \ \frac{7}{8}, \ \frac{5}{4}, \ \frac{3}{2}$

65. 12.05, 6.75, 2.436, 1.9

66. A, C, and E

67. 8

68. $-16\sqrt{5}$

69. $3\sqrt{2}$

70. $2\sqrt{15}$

71. $6\sqrt{3}$

72. 7

73. $5\sqrt{6}$

74. $\frac{\sqrt{5}}{2}$

75. 20

76. $\frac{4\sqrt{10}}{15}$

77. $-12\sqrt{7}$

78. $\frac{3\sqrt{15}}{5}$

79. $35\sqrt{15}$

80. $2\sqrt{15}$

81. $6\sqrt{10}$

82. $6x^2 - 20x + 6$

83. $8n^2 + 26n + 6$

84. $30p^2 - 8p - 64$

85. $n^2 - 25$

86. $16p^2 - 8p + 1$

87. $7k^3 - 17k^2 + 55k - 21$

88. $(n + 2)(n + 4)$

89. $(p + 10)(p + 1)$

90. $2(n + 9)(n - 6)$

91. $(3n - 2)(n - 2)$

92. (2, 1)

93. (-4, 3)

94. (7, -2)

95. (6, -6)