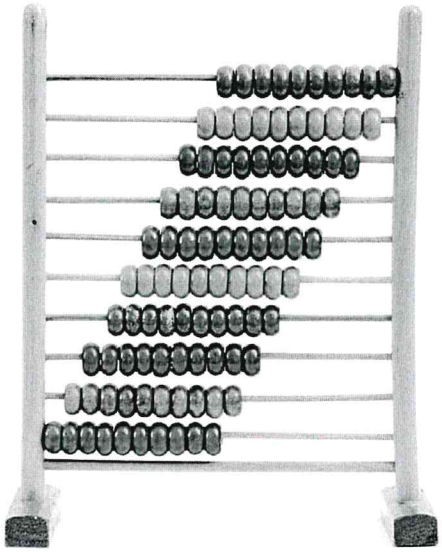
6th Grade Summer Math



Welcome to 6th grade math! We've put together a comprehensive review of the math concepts you will need to succeed in your math class next year.

Here are several things to remember as you complete this packet:

❑ Show us your work! This is a good rule of thumb to follow ALWAYS in math.

❑ Use a pencil.

❑ Bring your completed packet to school with you on your first day of school next year.

Have a great summer! We can't wait to get to know you in the fall!!

Summer Math Packet

Find the sum, difference, product, or quotient.

1. $839 + 296$
2. $156 - 39$
3. 18×36
4. $424 \div 8$
5. $6.468 + 4.22$
6. $5.174 - 2.01$
7. $8 - 3.21$
8. 0.826×3
9. 3.4×5.06
10. 3.4×0.001
11. $128 \div 0.4$
12. $9.186 \div 1000$
13. $\frac{5}{8} + \frac{7}{8}$
14. $7\frac{1}{5} + 3\frac{2}{3}$
15. $6 - 2\frac{3}{7}$
16. $9\frac{1}{2} - 4\frac{5}{6}$
17. $\frac{3}{5} \times \frac{2}{3}$
18. $3\frac{1}{4} \times 6\frac{2}{3}$
19. $\frac{4}{9} \div 3$
20. $2\frac{5}{6} \div 1\frac{3}{5}$
21. $\dfrac{\frac{3}{8}}{\frac{5}{4}}$

Order the numbers from least to greatest.

22. 18.14, 18.04, 18.41, 18.4, 18.401

23. $\frac{2}{3}, \frac{9}{10}, \frac{3}{4}, \frac{4}{5}$

Write the decimals as fractions or mixed numbers in simplest form and write the fractions or mixed numbers as decimals.

24. 0.26

25. 5.6

26. 3.06

27. 0.175

28. $\frac{19}{25}$

29. $2\frac{3}{8}$

Write the prime factorization of the number.

30. 40

31. 72

32. 56

33. 120

34. 90

Find the GCF of the numbers.

35. 16, 24 36. 12, 40 37. 7, 18

Find the LCM of the numbers.

38. 16, 24 39. 12, 40 40. 7, 18

Find the next two numbers.

41. 5, 9, 13, 17, ____, _____ 42. 50, 43, 36, 29, ____, _____

43. 1600, 800, 400, 200, _____, _____

Evaluate the expression.

44. $27-17+4$ 45. $5\times12\div20$ 46. $18+9\div3$

47. $4+3^3$ 48. $9\times(2+6)\div12$ 49. $100\div5^2+5$

50. $10-2\times3+7$ 51. $\dfrac{8^2}{9-5}$

Evaluate the expression when x = 9 and y = 4.

52. $3x$ 53. $4x+y$ 54. $92-x^2$ 55. $2x\div3+5$

56. $y+x+1$ 57. $6-y$ 58. $x-y\div2$ 59. $x+y^2$

Find the perimeter and area of the rectangle or square.

60. a rectangle that is 6 in. by 3 in.

61. a square that is 12 mi by 12 mi.

Graph the points on the coordinate grid (located on the answer sheet.

62. (0, 0) 63. (4, 1) 64. (2, 3) 65. (5, 4)

66. (1, 0) 67. (-1, 4) 68. (3, -4) 69. (0, 5)

Find the mean, median, mode(s), and range.

70. Number of telephones in student's homes: 3, 2, 3, 4, 1, 2, 4, 2, 3, 2

71. Temperatures at 6 a.m. (°F): 22, 25, 30, 31, 34, 40, 49

Write the decimal in words.

72. 2.09 73. 12.721

Write two fractions that are equivalent to the given fraction.

74. $\frac{1}{4}$ 75. $\frac{5}{6}$ 76. $\frac{4}{7}$

Find the area of the right triangle with the given information.

77. base = 9 m, height = 4 m

Find the circumference ($C=2\pi r$ or $C=\pi d$) of the circle described. Use 3.14 for π.

78. r = 5 in.

79. d = 2 ft.

Find the area ($A=\pi r^2$) of the circle described. Use 3.14 for π.

80. 3 m

Name _____ **Date** _____

Class _____