

**Summer Math**  
**For students entering Mathematics 6**

Name \_\_\_\_\_

Period \_\_\_\_\_

**Show all work steps neatly in the space provided.**

Re-write each problem vertically and solve. Remember to line up all place values appropriately. Show regrouping steps clearly.

1.  $7.906 + 1.72 =$

2.  $102 + 17.08$

3.  $10.056 - 6.83 =$

4.  $237.05 - 75.008 =$

5.  $400 - 12.87 =$

Rewrite each problem vertically and solve. Be sure to rewrite your new/resulting division problem after moving decimal points.

6.  $4.23 \times 5.8 =$

7.  $31.02 \times 4.91 =$

8.  $5.096 \times 4.03$

9.  $59.7 \div 0.4 =$

10.  $95 \div 0.05 =$

11.  $97.2 \div 0.72$

Round each decimal to the nearest hundredth.

12. 3.509 \_\_\_\_\_

13. 76.1954 \_\_\_\_\_

14. 0.764 \_\_\_\_\_

Round each decimal to the nearest tenth.

15. 51.686 \_\_\_\_\_

16. 9.03 \_\_\_\_\_

17. 4.257 \_\_\_\_\_

18. 28.73 \_\_\_\_\_

Round each decimal to the nearest whole number.

19. 54.19 \_\_\_\_\_

20. 31.79 \_\_\_\_\_

21. 9.6 \_\_\_\_\_

Order the numbers from least to greatest.

22. 246.8, 248.6, 244.9, 246.5 \_\_\_\_\_

23. 246.8, 246.809, 246.81, 246.9 \_\_\_\_\_

24. 129, 198, 200, 141 \_\_\_\_\_

Find the Greatest Common Factor (GCF) of the following numbers.

25. (18, 24) GCF = \_\_\_\_\_

26. (15, 6) GCF = \_\_\_\_\_

27. (16, 32) GCF = \_\_\_\_\_

28. (12, 48) GCF = \_\_\_\_\_

29. (7, 7) GCF = \_\_\_\_\_

Find the Least Common Multiple (LCM) of the following numbers.

30. (9, 15) LCM = \_\_\_\_\_

31. (4, 8) LCM = \_\_\_\_\_

32. (12, 20) LCM = \_\_\_\_\_

33. (6, 8) LCM = \_\_\_\_\_

34. (18, 27) LCM = \_\_\_\_\_

Simplify the following fractions. Identify the GCF used.

35.  $\frac{6}{8} =$                       GCF = \_\_\_\_\_

36.  $\frac{12}{18} =$                       GCF = \_\_\_\_\_

37.  $\frac{30}{55} =$                       GCF = \_\_\_\_\_

38.  $\frac{14}{24} =$                       GCF = \_\_\_\_\_

39.  $\frac{11}{44} =$                       GCF = \_\_\_\_\_

40.  $\frac{25}{35} =$                       GCF = \_\_\_\_\_

Convert each fraction or mixed number to a decimal. Convert each decimal to a fraction or mixed number **in simplest form**. Show any work done in conversions.

41.  $\frac{1}{2} =$

42.  $5\frac{3}{4} =$

43.  $4\frac{1}{8} =$

44.  $\frac{7}{20} =$

45.  $\frac{9}{72} =$

46.  $0.65 =$

47.  $0.05 =$

48.  $4.5 =$

49.  $7.25 =$

50.  $3.012 =$

Add or subtract. Regroup when needed by borrowing or carrying over. (*Do not change your mixed numbers to improper fractions to solve.*) You may rewrite the problems vertically to solve.

$$51. \frac{4}{7} + \frac{9}{28} =$$

$$52. \frac{2}{3} - \frac{1}{4} =$$

$$53. 4\frac{5}{8} - \frac{1}{8} =$$

$$54. 8\frac{2}{5} - 6\frac{5}{10} =$$

$$55. 9\frac{4}{5} + 8\frac{1}{2} =$$

$$56. \quad 3\frac{1}{4} - 2\frac{1}{3} =$$

$$57. \quad 4\frac{4}{15} + 3\frac{9}{10} =$$

$$58. \quad 4\frac{3}{10} + 7\frac{5}{6} =$$

$$59. \quad 6\frac{11}{15} - 1\frac{9}{10} =$$

$$60. \quad 3\frac{4}{9} - 2\frac{8}{9} =$$



Multiply or Divide. Show cross-simplifying wherever possible. Remember to KEEP, CHANGE, FLIP, to solve division with fractions. Write all answers in **simplest form**.

61.  $\frac{1}{3} \cdot \frac{3}{5} =$

62.  $\frac{3}{8} \cdot \frac{2}{9} =$

63.  $2 \cdot \frac{5}{8} =$

64.  $3 \cdot 1\frac{5}{6} =$

65.  $2\frac{1}{2} \cdot 2\frac{2}{13} =$

66.  $\frac{1}{4} \div \frac{1}{2} =$

67.  $2\frac{1}{3} \div 1\frac{3}{4} =$

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

69.  $\frac{9}{10} \div \frac{3}{5} =$

70.  $3\frac{1}{4} \div 2\frac{5}{6} =$

Solve the following using order of operations. (PE MD AS) Be sure to show work steps.

71.  $15 + 5 \times 3 =$

72.  $3 + 18 \div 3 - 4 =$

73.  $8 - 14 \div (9 - 2) =$

74.  $4 - 24 \div 2^3 =$

75.  $2 \cdot (7 + 5) \div 4 =$

76.  $58 + 2 \cdot 5 - 12 \div 4 =$

77.  $8 \times (13 \times 10 + 3^2) - 7 =$

78.  $(11 + 55 - 6^2) \div (20 - 5) =$

79.  $10 \times (12 \times 7 - 2^2) + 5 =$

80.  $(8 + 29 - 5) \div 8 + 2^2 =$

Solve for the variable in each equation. Show any computations done when solving.

81.  $17 + x = 29$

82.  $r - 68 = 23$

83.  $15 \cdot z = 0$

84.  $y \cdot 7 = 91$

85.  $\frac{k}{9} = 16$

86. Are the ratios  $\frac{45}{3}$  and  $\frac{9}{5}$  equivalent?

87. Are the ratios  $\frac{5}{7}$  and  $\frac{15}{21}$  equivalent?

Solve for the variable.

88.  $\frac{2}{n} = \frac{3}{24}$

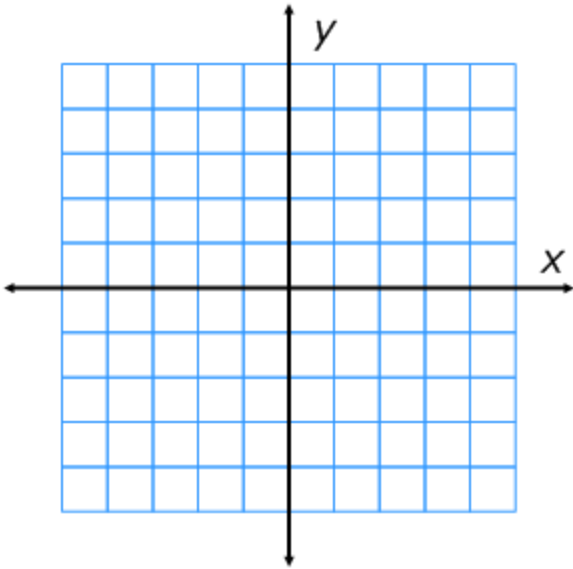
89.  $\frac{2}{3} = \frac{18}{n}$

90.  $\frac{n}{9} = \frac{12}{27}$

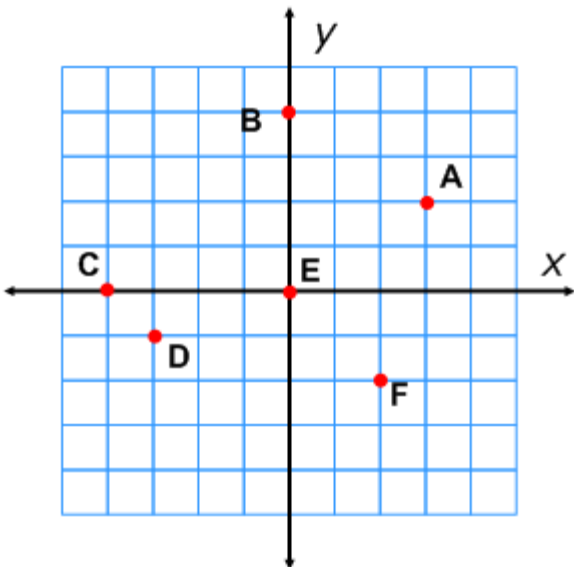
91.  $\frac{7}{3} = \frac{n}{12}$

92. Graph each point:

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



93. Write the coordinates of the points:



A: \_\_\_\_\_

B: \_\_\_\_\_

C: \_\_\_\_\_

D: \_\_\_\_\_

E: \_\_\_\_\_

F: \_\_\_\_\_

*The End*

See you in 6<sup>th</sup> grade!