

Name: \_\_\_\_\_

**Math Department: Summer Assignment for Students Entering Algebra I**

The purpose of this assignment is to keep your math skills “fresh” over the summer. The assignment will be checked when you return to school. A quiz will be given on this material after classes begin.

If you would like additional practice, or tutorials on problems similar to those below, visit [www.math.com](http://www.math.com) (look under the “Pre-Algebra” and/or “Basic Math” categories).

Below, perform the indicated operations without the use of a calculator. Simplify all fractions. Show work to indicate how you got your answer.

$$\begin{array}{r} 1. \quad 1334 \\ \quad 2179 \\ \quad 6119 \\ + 2771 \\ \hline \end{array}$$

$$2. \quad 47.06 \\ \quad + 0.8$$

$$3. \quad 4003 \\ \quad - 276$$

$$4. \quad 12.4 \\ \quad - 3.63$$

$$5. \quad 6.1 + 3.48 + 0.5$$

$$6. \quad 37.09 - 19$$

$$7. \quad 79 \\ \quad \times 87$$

$$8. \quad 907 \\ \quad \times 708$$

$$9. \quad 6.09 \times 4$$

$$10. \quad 5.39 \\ \quad \times 2.4$$

$$11. \quad 18 \overline{)3006}$$

$$12. \quad 0.4 \overline{)3.32}$$

$$13. \quad 2.2 \overline{)66}$$

$$14. \quad \frac{4}{9} + \frac{7}{9}$$

$$15. \quad 8\frac{1}{6} + 3\frac{5}{6}$$

$$16. \quad 7\frac{1}{8} + 12\frac{3}{4}$$

$$17. \quad \frac{3}{4} - \frac{2}{5}$$

$$18. \quad 12\frac{1}{4} - 4\frac{5}{8}$$

$$19. \quad \frac{2}{7} \times \frac{2}{6}$$

$$20. \quad 6 \times 3\frac{1}{8}$$

$$21. \quad 9\frac{3}{4} \times 2\frac{7}{8}$$

$$22. \quad \frac{3}{7} \div \frac{3}{7}$$

$$23. \quad \frac{5}{9} \div \frac{5}{2}$$

$$24. \quad \frac{3}{4} \div 12$$

25.  $12\frac{1}{2} \div 2\frac{3}{4}$

26.  $-3 + (-8)$

27.  $8 + (-3) + (-11)$

28.  $-8 + 4 - 7 - 3$

29.  $-3.1 + 6.8$

30.  $9 - (-8)$

31.  $-12 - 20$

32.  $-4 - (-18)$

33.  $-7.2 - (-10.1)$

34.  $-\frac{9}{10} + \frac{3}{4}$

35.  $-\frac{1}{2} - \frac{3}{8}$

36.  $\frac{2}{3} - \frac{9}{10}$

37.  $\frac{5}{6} - \left(-\frac{5}{3}\right)$

38.  $9 \bullet (-4)$

39.  $\left(\frac{3}{4}\right)\left(-\frac{4}{7}\right)$

40.  $\left(-\frac{2}{3}\right)\left(-\frac{5}{8}\right)$

41.  $(-8) \bullet 6$

42.  $-11(-3)$

43.  $5(-4)(-6)(-2)$

44.  $(.36)(-.9)$

45.  $35 \div 7$

46.  $\frac{-54}{-6}$

47.  $\frac{0}{-5}$

48.  $125 \div (-5)$

49.  $\frac{4}{9} \div \left(-\frac{8}{3}\right)$

50.  $\left(-\frac{3}{5}\right) \div \left(-\frac{5}{6}\right)$

51.  $(-15) \div 0$

## ANSWERS

1. 12,403
2. 47.86
3. 3727
4. 8.77
5. 10.08
6. 18.09
7. 6,873
8. 642,156
9. 24.36
10. 12.936
11. 167
12. 8.3
13. 30
14.  $\frac{11}{9}$
15. 12
16.  $19\frac{7}{8}$
17.  $\frac{7}{20}$
18.  $7\frac{5}{8}$
19.  $\frac{2}{21}$
20.  $\frac{75}{4}$
21.  $\frac{897}{32}$
22. 1
23.  $\frac{2}{9}$
24.  $\frac{1}{16}$
25.  $\frac{50}{11}$
26. -11
27. -6
28. -14
29. 3.7
30. 17
31. -32
32. 14
33. 2.9
34.  $-\frac{3}{20}$
35.  $-\frac{7}{8}$
36.  $-\frac{7}{30}$
37.  $\frac{5}{2}$
38. -36
39.  $-\frac{3}{7}$
40.  $\frac{5}{12}$
41. -48
42. 33
43. -240
44. -.324
45. 5
46. 9
47. 0
48. -25
49.  $-\frac{1}{6}$
50.  $\frac{18}{25}$
51. undefined