

Name: _____

Date: _____

Beacon Summer Homework for 2014-2015 Algebra 1 Students:

This homework will help you “freshen up” your math skills over the summer so you are ready for Beacon mathematics in September. This homework will be checked when you return to school. A quiz on this material will be given when you return to school.

If you would like additional tutorials and/or practice, check out khanacademy.com or math.com and search “Pre-Algebra.”

On all problems, perform the indicated operations WITHOUT a calculator. Simplify all fractions completely. **Show ALL your work to indicate how you got your solution.** Homework with no work will earn a zero.

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

2.
$$\begin{array}{r} 47.06 \\ + 0.8 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 4003 \\ - 276 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 12.4 \\ - 3.63 \\ \hline \end{array}$$

5. $6.1 + 3.48 + 0.5$

6. $37.09 - 19$

7.
$$\begin{array}{r} 79 \\ \times 87 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 907 \\ \times 708 \\ \hline \end{array}$$

9. 6.09×4

10.
$$\begin{array}{r} 5.39 \\ \times 2.4 \\ \hline \end{array}$$

11. $18 \overline{)3006}$

12. $0.4 \overline{)3.32}$

13. $2.2\overline{)66}$

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

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

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

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

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

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

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

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

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

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

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

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. $9 \cdot (-4)$

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

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

41. $(-8) \cdot 6$

42. $-11(-3)$

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

44. $(-.36)(-0.9)$

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. $(-15) \div 0$

Solutions (check your work AFTER you try all 51 problems)

1. 9,632
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. 0.324
45. 5
46. 9
47. 0
48. -25
49. $-\frac{1}{6}$
50. $\frac{18}{25}$
51. undefined