Dear Algebra 1 Student,

This is your first assignment for Algebra 1. **Please complete these problems and bring them with you on the first day of school.** The work can be done on the worksheet, but it should be done neatly. You may use notebook paper if you wish. Copy the problem and then show **all** work. Any computation can be done out to the side of the problem. **YOU MAY NOT USE A CALCULATOR.** All answers should be written in the answer blanks.

I look forward to meeting you!!!

Mrs. Denny

Name: _____ Period: _____

SUMMER PREPARATION – ALGEBRA I

A. Find the answer to each. Be sure and use PEMDAS. Reduce if necessary. Must show work!!

1. $\frac{4}{5} + \frac{2}{3}$

Ans: _____

2. $\frac{1}{3} - \frac{1}{4} + \frac{1}{5}$

Ans: _____

3. $\frac{-4}{15} \cdot \frac{5}{6}$

Ans: _____

4. $\frac{9}{8} \div \frac{243}{72}$

Ans: _____

5. $-3.06 - 5.8$

Ans: _____

6. $0.12 - 5.04$

Ans: _____

7. $(-2.33)(-0.005)$

Ans: _____

8. $2\frac{1}{6} + \frac{9}{24} - \frac{2}{3}$

Ans: _____

9. $\frac{1}{3} \div \frac{14}{15}$

Ans: _____

10. $24 \div 0.004$

Ans: _____

11. $1.24 - 6$

Ans: _____

12. $2 \div \frac{1}{6}$

Ans: _____

13. $(-4)^2$

Ans: _____

14. 2^3

Ans: _____

15. $(\frac{2}{3})^2$

Ans: _____

16. $2[5 + (-13)]$

Ans: _____

17. $2(3^2 + 4 \div 2)$

Ans: _____

18. $\frac{4 \div 2 + 10}{6}$

Ans: _____

19. $-(3 - 6 + 2 + 4)$

Ans: _____

20. $15 \div 3 \cdot \frac{1}{5}$

Ans: _____

21. $(-3)(6) + (-2)(4)$

Ans: _____

22. $2^3 + 3^2$

Ans: _____

23. $\frac{27}{9} + \frac{40}{8} - \frac{72}{6}$

Ans: _____

24. $-[2(8 - 9)]$

Ans: _____

B. Substitute and evaluate the following expressions if a = ⅓, b = 12, c = 0, d= -3, e = $\frac{1}{6}$. Must show work!!

25. ab

Ans: _____

26. be + ad

Ans: _____

27. abe

Ans: _____

28. a + e

Ans: _____

29. abcd

Ans: _____

30. b ÷ c

Ans: _____

31. –db

Ans: _____

32. c ÷ d

Ans: _____

33. ab ÷ e

Ans: _____

34. b ÷ d ÷ e

Ans: _____

C. Combine like terms.

35. $2d^2 + 3d^2 - 4e^2 - 5e^2$

Ans: _____

36. $\frac{1}{7}x - \frac{1}{3}y + \frac{3}{14}x + \frac{5}{6}y$

Ans: _____

37. $4a^2 - 5a + 6a + 10$

Ans: _____

38. $0.33rt - 0.46r^2 t - r t - r^2 t$

Ans: _____

39. $-3t - 2t - 5t - 6t$

Ans: _____

D. Solve and check. Must show work!!

40. $x - 4 = 10$

Ans: _____

41. $3 + y = 16$

Ans: _____

42. $\frac{4}{5}x = 10$

Ans: _____

43. $-3c = -17$

Ans: _____

44. $3x - 5 = 15$

Ans: _____

45. $24 - 7r = 21$

Ans: _____

46. $\frac{1}{3}g + \frac{2}{3} = \frac{1}{6}$

Ans: _____

47. $0.02w + 0.75 = -0.25$

Ans: _____

48. $\frac{1}{12}p - \frac{5}{6} = 1$

Ans: _____

49. $-5y - 3 = -2$

Ans: _____

50. $16 + 2d = -14$

Ans: _____