Algebra 1
Summer Assignment

Name:
Date: $\qquad$ Hour: $\qquad$
Directions: Please circle your final answers. Show all work. This assignment is due the first day of school.

Perform the indicated operation

1. $12 \cdot 5$
2. $5+(-9)$
3. $7-(-3)$
4. $-7 \cdot 7$
5. $-63 \div 9$
6. $14+17$
7. $(-8) \cdot(-3)$
8. $-8 \div-2$

Write the fraction in simplest form.
9. $\frac{24}{40}$
10. $\frac{6}{33}$
11. $\frac{36}{63}$
12. $\frac{36}{6}$

Combine the two fractions. Be sure to have common denominators. Simplify final answer.
13. $\frac{5}{12}+\frac{6}{12}$
14. $\frac{3}{5}-\frac{1}{5}$
15. $\frac{7}{3}+\frac{4}{3}$
16. $\frac{5}{7}-\frac{5}{7}$
17. $\frac{8}{3}+\frac{1}{6}$
18. $\frac{3}{4}-\frac{1}{2}$
19. $\frac{3}{5}+\frac{7}{10}$
20. $\frac{4}{3}-\frac{3}{5}$

Multiply or divide the two fractions. Simplify final answer.
21. $\frac{2}{3} \cdot \frac{3}{5}$
22. $\frac{5}{6} \cdot \frac{1}{2}$
23. $\frac{5}{7} \cdot \frac{3}{5}$
24. $\frac{7}{2} \cdot \frac{3}{4}$
25. $\frac{1}{5} \div \frac{3}{2}$
26. $\frac{3}{5} \div \frac{2}{5}$
27. $\frac{3}{8} \div \frac{7}{4}$
28. $\frac{2}{9} \div \frac{3}{1}$

Simplify the following by using order of operations.
29. $7^{2}+3^{2}$
30. $8^{2}+6^{2}$
31. $130-(7+4)^{2}$
32. $5+\frac{2}{3}(7+8)$
33. $\frac{(5+4)^{2}}{3}$
34. $130-7+4^{2}$
35. $17 \div\left(5^{2}-8\right)$
36. $2+9 \div 3-5$
37. $15 \div 3+21 \div 7$
38. $7 x$ when $x=5$
39. $\frac{12}{x}$ when $x=6$
41. $\frac{3}{2}+x$ when $x=\frac{5}{2}$
42. $1 \frac{5}{6}+2 x$ when $x=\frac{1}{6}$

Round the decimal to the indicated place value.
44. 9.5367, tenth
45. 3.0761, hundredth
46. 3.964, tenth

Identify the reciprocal of the following numbers
47. $\frac{3}{4}$
48. $-\frac{5}{3}$
49. $-\frac{1}{2}$
50.7

Simplify the expression by combining like terms.

$$
\text { 51. } 5 x+7 x
$$

52. $3 x^{2}+2 x-5 x^{2}+7 x$
53. $6 x+4 y-4 x+3 y$
54. $3 x+5+10$
55. $3 x^{2}+6 x+7-2 x$
56. $5 y-4 y+2-2$

Write the following fractions as percents
57. $\frac{3}{4}$
58. $\frac{4}{5}$
59. $\frac{19}{20}$
60. $\frac{7}{10}$

