

Name _____

Algebra 1 summer assignment

The following topics necessary for algebra 1. Complete each example to assure you are ready for the class. I will be using your work as a pre-test and will be giving you another test within the first two weeks of school.

- add/subtract/multiply/divide fractions
- Solve 1 and 2 step equations
- Long division
- Solve multi-step pemdas
- Add/subtract/multiply/divide integers
- Graph a line with a table of values
- Solve simple proportions
- Writing numbers in scientific notation

Complete the indicated operation.

a. $1\frac{2}{3} + 5\frac{6}{21} =$

b. $4\frac{2}{5} - 2\frac{4}{7} =$

c. $\frac{2}{5} \cdot \frac{4}{7} =$

d. $\frac{2}{5} \div \frac{2}{9} =$

Solve for x

a. $3x - 4 = 11$

b. $\frac{x}{4} = 1$

Use long division to solve the following (show your work).

a. $3250 \div 26 =$

b. $0.0828 \div 0.36 =$

Complete the indicated operation with integers.

a. $6 + (-9) =$

b. $-10 - (-11) =$

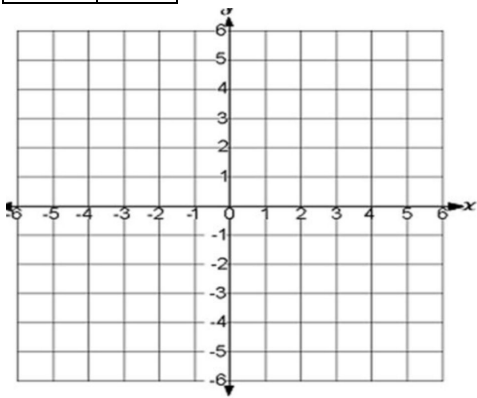
c. $-10 \div (-5) =$

d. $\frac{-60}{15} =$

Use a table of values to graph the equation.

$$y + 3x = 6$$

x	y



Solve the following proportions

a. $\frac{3}{x} = \frac{15}{5}$

b. $\frac{x}{7} = \frac{10}{25}$

Simplify

a. $4 - 6 + 8 \div 2(3 - 4)$

b. $60 \div 6 + (-9) \cdot 2(2 - 3)$

Write the following in scientific notation

a. 3,456,532

b. 0.03456