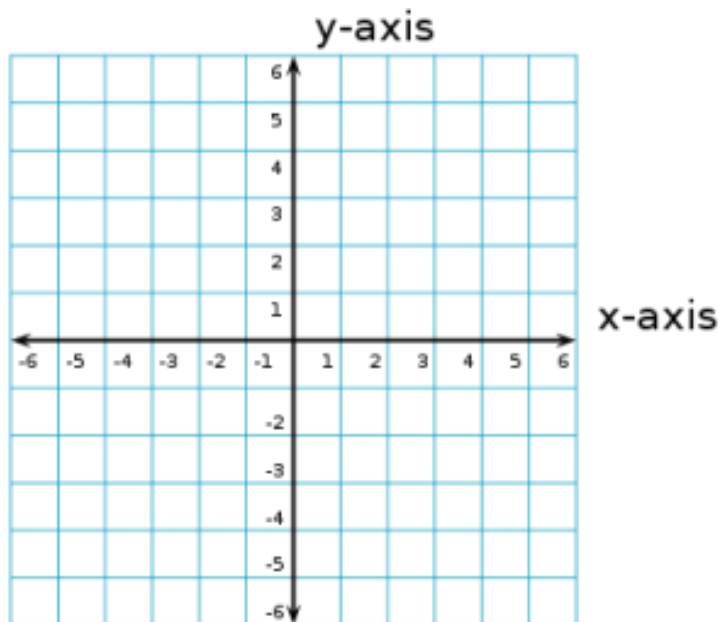


## MATH 4: Classwork 1.

**Cartesian coordinate system** is a coordinate system that specifies each point uniquely in a plane by a pair of numerical coordinates

Remember the rule: first you crawl then you walk- the first number corresponds to a point on the X axis (crawl), the second to a point on the Y (walk). Or just use them in alphabetical order:abcd.....wXYZ

1. Here is the X and Y plane



Graph the following points:

A(-3, 3)

B(3, 4)

C(3, -5)

D(-3, -6).

E(2,0)

F(0, 5)

2. Compute the following products:

$$7 \times 412$$

$$25 \times 1,499$$

$$111 \times 111$$

$$1,111 \times 1,111$$

$$1,111,111 \times 1,111,111$$

3. At a lemonade stand, they have two kinds of cups: 6 ounce cups and 8 ounce cups.

a. A boy comes to the stand with a large cup of unknown volume and asks for exactly 20 ounces of lemonade. Can the lemonade seller do it, by using his two kinds of cups as measuring cups?

b. And a third boy only wants 10 ounces of lemonade. Can the seller help him?

c. Another boy now wants 21 ounces of lemonade. Can the seller help him, too?

4. Divide using long division:

$$522 \div 6$$

$$1662 \div 6$$

$$3902 \div 4$$

$$1770 \div 3$$

5. Solve the problems by composing equations or graphing

- a. A dog weighs 2 pounds more than a cat. Together, a dog and two cats weigh 17 pounds.

How much does the dog weigh? How much does the cat weigh?

- b. A dog weighs 2 pounds more than a cat. Together, two dogs and two cats weigh 16 pounds.

How much does the dog weigh? How much does the cat weigh?

6. Compare without doing calculations (put  $<$ ,  $>$ , or  $=$ ):

a. $2453+235$ _____ $2453+236$	b. $2341-123$ _____ $2341-122$
c. $234\times 123$ _____ $234\times 122$	d. $456\div 4$ _____ $456\div 3$
e. $a\div 4$ _____ $a\div 3$	f. $b+235$ _____ $b+236$