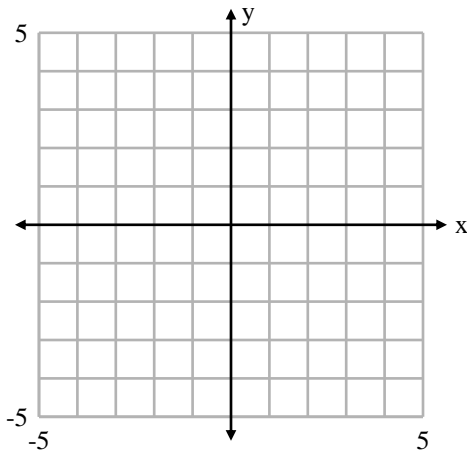


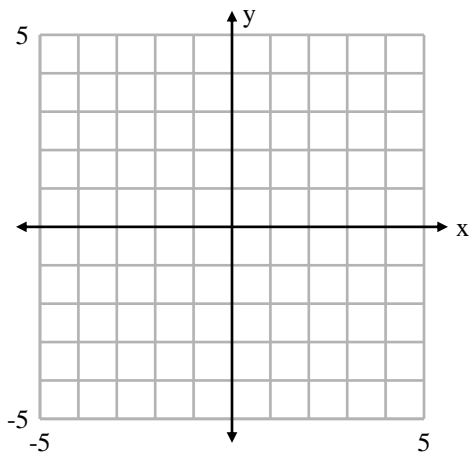
**Graphing**    I do not know how to graph.

1. Plot the ordered pairs  $-3, 1$  ,  $0, 2$  , and  $\left(\frac{3}{2}, -\frac{10}{3}\right)$  on the grid below.

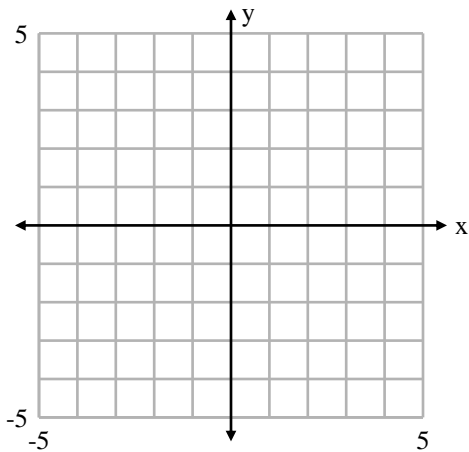


2. Graph  $y = 2x - 3$ .

What is the slope of this line? \_\_\_\_\_    What is the y-intercept of this line? ( , )



3. Graph  $2x + 3y = 6$  by finding the x-intercept and the y-intercept.



The x-intercept is ( , ).  
The y-intercept is ( , ).

**Word Problems**      I do not know how to do word problems.

Set-up the following by:

- 1) clearly defining the variable that you use.  
(For example: Let  $X$  = number of bicycles produced) and
- 2) writing an equation you would use to solve the given word problem.

**DO NOT SOLVE THE EQUATION.**

4. The sum of six times a number and thirteen is five less than the product of three and the number.

Let  $X$  = \_\_\_\_\_

Equation: \_\_\_\_\_

5. The sum of two numbers is 18. The difference between four times the smaller number and seven is equal to the sum of two times the larger number and five.

Let  $X$  = \_\_\_\_\_

Equation or system of equations: \_\_\_\_\_

6. If you scored 83, 75, and 88 on your first three exams and you want your overall exam average on four exams to be 80, what must you score on the fourth exam?

Let  $X$  = \_\_\_\_\_

Equation: \_\_\_\_\_

7. Amazon.com is advertising a sale on certain DVD box sets for 40% off the original price. If the sale price of The Simpsons Season 10 box set is \$29.99, what is its original price?

Let  $X$  = \_\_\_\_\_

Equation: \_\_\_\_\_

8. A coin bank contains 50 coins in nickels and quarters. The coins have a total value of \$9.50. Find the number of nickels and quarters in the bank.

Let  $X$  = \_\_\_\_\_

Equation or system of equations: \_\_\_\_\_

**Fractions****Place a box around your answer.** I do not know how to work with fractions.

9.  $\left(\frac{1}{3}\right)\left(-\frac{4}{5}\right)\left(\frac{3}{8}\right)$

10.  $-\frac{3}{4} \div \frac{9}{5}$

11.  $\frac{5}{8} + \frac{2}{3}$

12.  $\frac{2}{5} + \frac{1}{10} - \frac{1}{6}$

13.  $\frac{4}{7} - 2$

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**Decimals** I do not know how to work with decimals.

14.  $-1.329 + 4.89$

15.  $6.25 - 0.30$

16.  $-1.27 \div -1.7$

17.  $250 \div 0.05$

18.  $-7.2 \div 180$

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**Exponents and Order of Operations****Place a box around your answer.** I do not know how to do these problems.

19.  $-3^4$

20.  $2 \cdot 5^2$

21.  $36 - 24 \div 2^3 \cdot 3 - 1$

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**Variable Expressions: Distributive Property, Like Terms, Evaluating, Translating** I do not know how to do these problems.

22. Simplify.  $-2 - 3y + 9$

23. Simplify.  $3x + -12y - 5x - -7y$

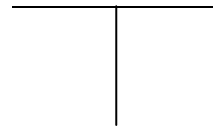
24. Evaluate  $a - 3b^2$  when  $a = 4$  and  $b = -2$ .

25. Translate into an algebraic expression. "the quotient of eight more than n and seventeen"

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**Linear Equations and Inequalities in One Variable** I do not know how to do these problems.

26. Solve.  $3x - 2 = 5x + 8$       Check your answer:  $3x - 2 = 5x + 8$



27. Solve.  $9 - 3 \cdot 2x - 5 = 12 + 5x$  (you will have a fraction as an answer)

28. Solve and graph the solution set.  $-3x \leq 6$

