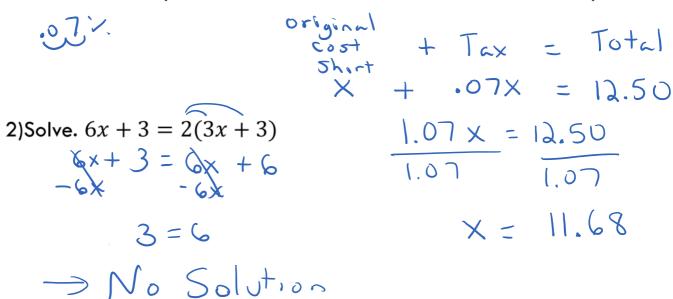
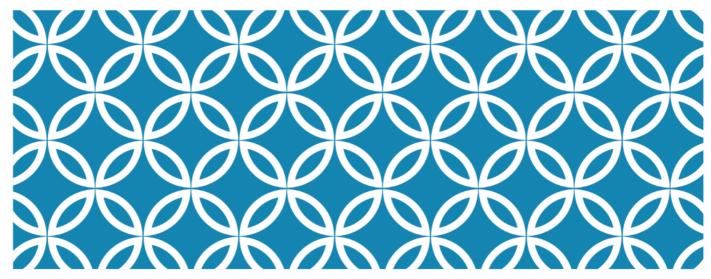
DAILY QUEST

1) Jimbo paid \$12.50 for a shirt with a sales tax of 7% included, but he doesn't remember the price without tax. What was the price of the shirt? Write an equation to model the situation. Then solve the equation.







LESSON 5.1

DETERMINE IF A POINT IS A SOLUTION
TABLE TO GRAPH

Goal: To solve equations/inequalities in math and real world context and to write rules for arithmetic sequence.

Obj: SWBAT determine if a coordinate is a solution to a equation.

Obj: SWBAT graph points.

EXPLORING SOLUTIONS

What two values will make this equation make sense?

$$\rightarrow$$
 $x + y = 10$

EXPLORING SOLUTIONS

What two values will make this equation make sense?

$$x - y = 5$$

ODD ONE OUT ACTIVITY

Each group is given an equation.

Each person is given an order pair.

Each student **thinks/works quietly** to determine if there order pair is a solution to the equation.

Then they do a Round Robin to share there answer and work. Students must **prove** they do or do not have the solution.

$$2x + 3y = 24$$

(6,4)
$$\begin{array}{c}
(-2,10) \\
2(-2) + 3(10) = 24 \\
-4 + 30 & \text{Not a} \\
26 \neq 24 & \text{Solution}
\end{array}$$
(12,0)
$$(-6,12)$$

PROBLEM 1:

Determine if the order pair is a solution to the equation? What does it mean graphically?

x - 3y = 8

$$(-10, -6)$$

 $-10 - 3(-6) = 8$
 $-10 + 18 = 8$
 $8 = 8$
Solution
The point is on
the line

$$(-2,-4)$$

$$-2-3(-4)=8$$

$$-2+12=8$$

$$10 \neq 8$$
Not a solution
The point is not on
the line.

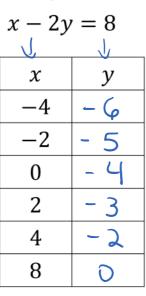
PROBLEM 1A:

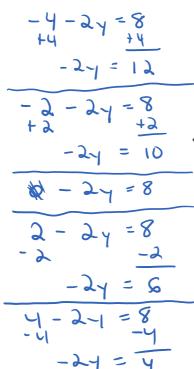
Determine if the order pair is a solution to the equation? What does it mean graphically?

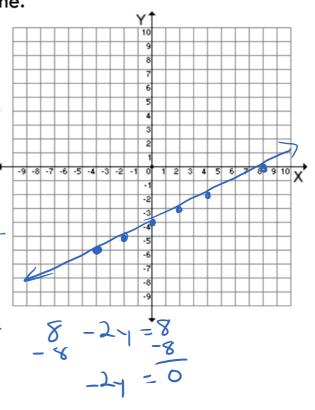
$$2(x+1)^2 + 3y = 15$$
(1,-1) (-1,5)

PROBLEM 2:

Complete the table and graph the line.



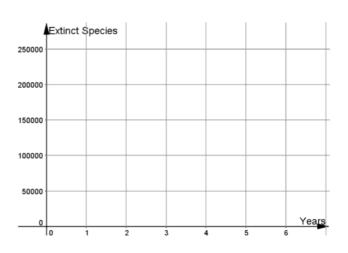




PROBLEM 2A:

The equation $y=25{,}000x$ describes the average number of a species y that become extinct in x years. Graph the equation.

x	у
(years)	(extinct species)
0	
2	
4	
6	

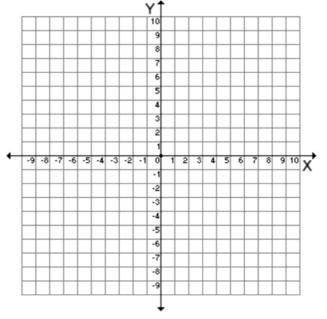


PROBLEM 2B:

Complete the table and graph the line.

$$y = 3x - 7$$

x	у
-1	
0	
1	
2	
3	
4	



ASSIGNMENT

Pg 122; 3-7, 12-14, 16, 18

Use these points for Problem 6 x=-1,-0.5,0,2,4