

## Warm-Up

Write, in detail, the steps for creating a peanut butter and jelly sandwich (As if you were explaining to someone who did not know)

# HW #1 Answers

## ANSWER KEY

1.  $\underline{x} = -24$

2.  $\underline{x} = 1/3$

3.  $\underline{x} = 7/9$

4.  $\underline{x} = -84$

5. \$635,000

6.  $x \geq 3$

7.  $x \leq 0$

8. 13 games; No, you have .25 left

9)  $x = 7$  or  $x = -2$

10)  $x = \frac{81}{2}$  or  $x = -\frac{27}{2}$

11)  $x \leq -\frac{7}{3}$  or  $x \geq 9$

12)  $-112 < x < 32$

Objective: Today will we continue to review topics from algebra 1 to refresh our memories.

Agenda:

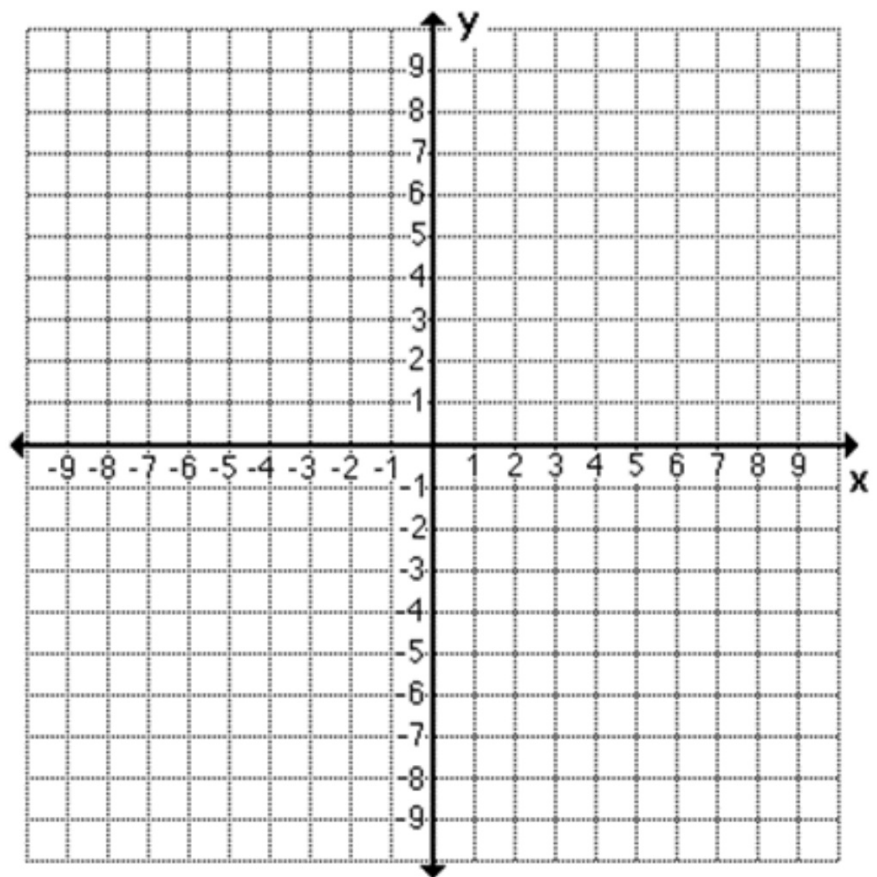
- Warm -up
- Review of graphing and writing linear equations, and systems of equations
- Packet

## Day 2 (1/29) Algebra Review Examples

A car salesman earns a base salary of \$20,000 per year in addition to 9% of the total amount of his sales per year. If he earned \$53,435 in a year, what was the total amount of the cars he sold?

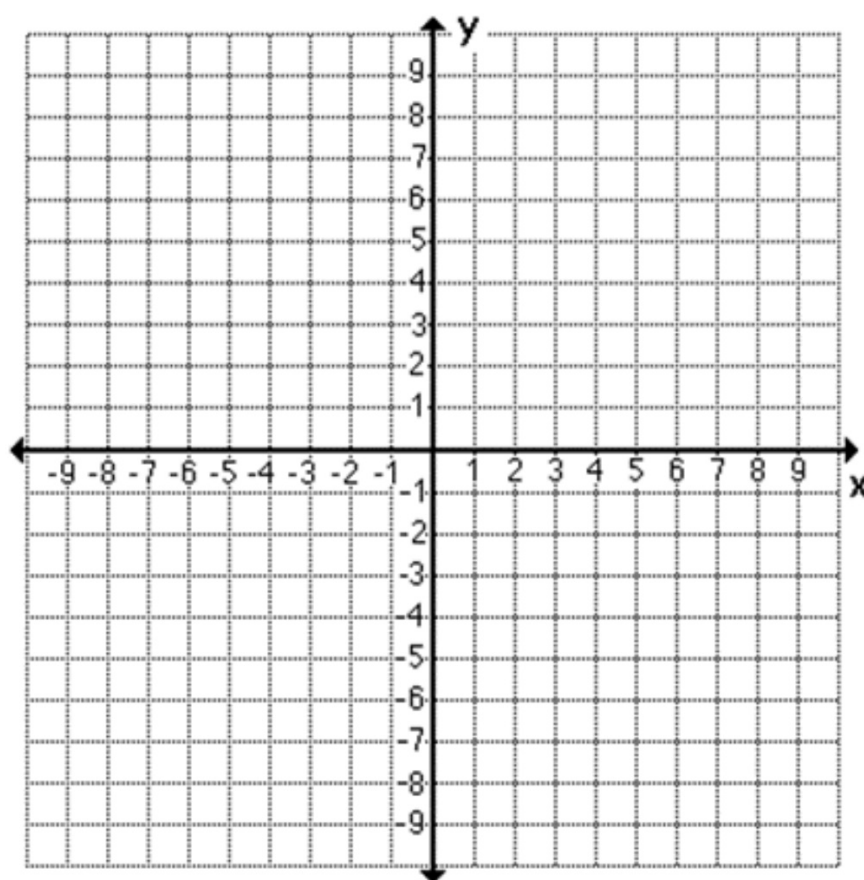
## Graphing Equations and Inequalities

$$2x + 3y = 12$$



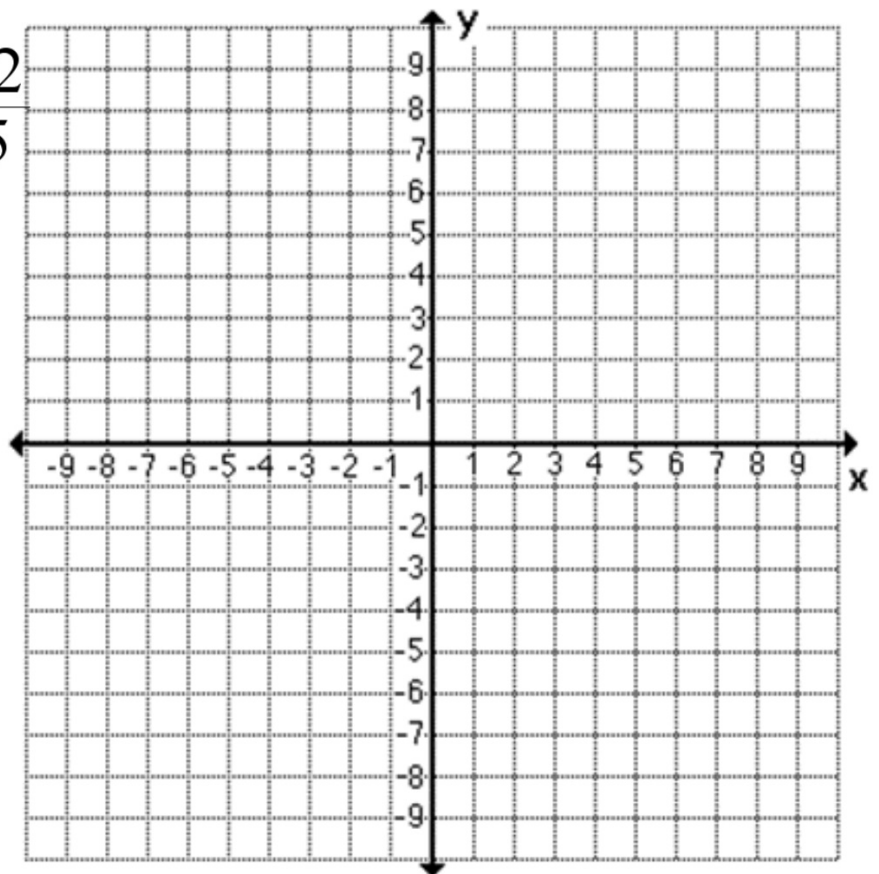
## Graphing Equations and Inequalities

$$y - 5x < 3$$



## Graphing Equations and Inequalities

$$\frac{2}{15}x - \frac{3y}{5} \leq \frac{12}{5}$$



You have \$10 to spend on candy. Gummi bears are \$1.75 per bag and m+ms are \$1.20 per bag.

Write a linear inequality in two variables to represent how many bags of each type of candy you can buy.



## Writing Equations of lines

1. What is the slope and y-intercept of  
 $5x + 7y = 28$
2. Write an equation with a slope of 4  
and a y intercept of -9

3. Write an equation of the line that has a slope of 7 and goes through the point (3, -2)

Write an equation of a line that goes through the points  $(5, -3)$  and  $(8, 9)$

## **Remember!**

Parallel lines have the \_\_\_\_\_ slope

Perpendicular lines have \_\_\_\_\_  
slopes

Write the equation of a line that is perpendicular to  $y = 4x + 6$  and contains the point  $(8, -3)$

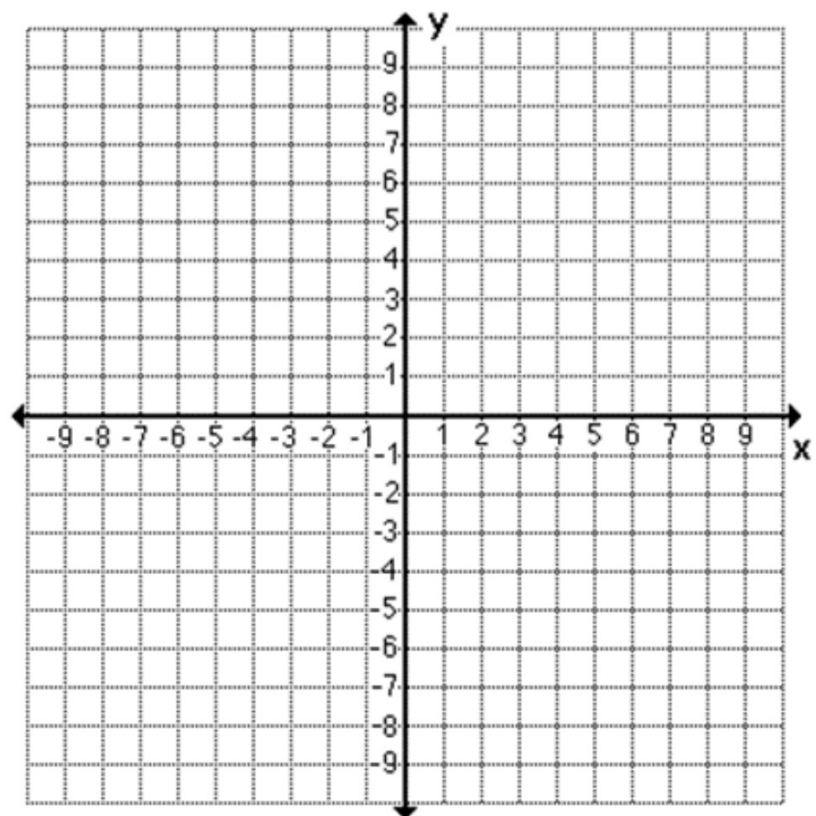
Parallel to the line through  
 $(-3,4)$  and  $(11,-3)$  and passing  
through the point  $(10,13)$

## Systems of equations

- Graphing
- Substitution
- Elimination

# Graphing

- Linear
- Inequalities
- No Solution





## Substitution

Solve.

$$-4x - 5y = -3$$

$$x - 2y = 4$$

## Elimination

Solve.

$$x + 2y = 2$$

$$3x - 8y = -22$$

$$x - 2y = -6$$

$$-3x + 6y = 8$$

$$2x + 16y = 14$$

$$x + 8y = 7$$



