Created by Bryson Carter Warmup 11/(Solution of 3b - 2 = 2b + 12) 1) Find the solution:

 $\begin{cases} x+y=8\\ x+2y=11 \end{cases}$

2) Describe, in words, how you would graph the following equation:

$$y=\frac{1}{2}x+3$$



Which (x, y) works for BOTH? .

$$x + y = 5$$
$$x + y = 10$$

Which (x, y) works for BOTH?

$$y = -\frac{1}{3}x + 4$$

$$y = \frac{3}{2}x - 7$$

NEED:

· Graphing Sheet, Marker, Eraser



Vocab

- A <u>system of equations</u> is a set of more than one equation.
- Solution of a system: The set of numbers that works in BOTH equations

Solving by Graphing

 It is pretty difficult to solve most systems just by looking at them. However, if you know how to graph the equations, then finding the point of intersection can be easy!













Graphing: Advice

 You should extend your line to **both sides** of the graph – your solution might be in the negatives!

















Homework

- Textbook p. 239 (1, 2, 3)
- +YOU MUST CHECK YOUR ANSWER!!! (Write this on the page right now!!!)