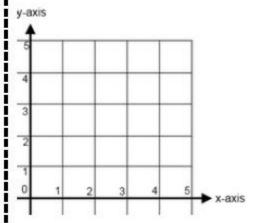
Week 1 Tuesday Course 3 Warm-up

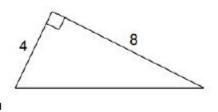
Two bowls and one cup have a mass of 800 grams. One bowl and two cups have a mass of 700 grams. Find the mass of a bowl and the mass of a cup.



Finding Distance Find the distance between the two points X(1,1) and Y(5,5).

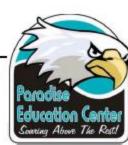


Find each missing length to the nearest tenth.



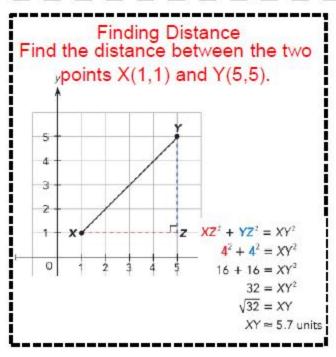
Week 1 Tuesday Course 3 Warm-up

Two bowls and one cup have a mass of 800 grams. One bowl and two cups have a mass of 700 grams. Find the mass of a bowl and the mass of a cup.

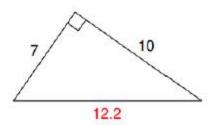


$$2b + c$$
; 800 $b + 2c$; 700

300; 200



Find each missing length to the nearest tenth.



Objective

TSW solve systems of linear equations by finding the unique solution using the following strategy...

- *Elimination Method
- *Substitution Method
- *Graphical Method



A system of linear equations may have a unique solution. It can be solved using the elimination, substitution, or graphical methods.

Common Core State Standards

8EE 8a Understand that solutions to a system...satisfy both equations simultaneously. 8EE 8 b Solve Systems of two linear equations in two variables algebraically

Mathematical Practices 2 Reason 3 Construct arguments 4 Model Mathematics

	V I - I -	D		
C1	Vocabulary Review			
Slop		Slope Intercept Form		
Visu	ual Example: What I Think	Visual Example: What I Think		
-				
-				
_				
The	ratio of the rise, or vertical change, to the	A form of a linear equation, y=mx+b, where m is		
-	or horizontal change, between any two points	the slope and b is the y intercept of the graph of		
1				
1	non-vertical line on the coordinate plane.	the equation.		
Com	nparing My Thoughts	Comparing My Thoughts		
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Vocabulary Review

Slope

Visual Example: What I Think

The ratio of the rise, or vertical change, to the run, or horizontal change, between any two points on a non-vertical line on the coordinate plane.

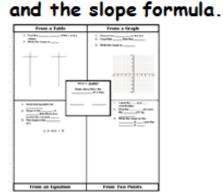
Comparing My Thoughts



$$\frac{\text{RISE}}{\text{RUN}} = \frac{\text{vertical change}}{\text{horizontal change}}$$

Slope describes the steepness of line. Several types of slope (positive, negative, vertical, horizontal). You can find the slope from a table, from graph (counting rise over run),

from equation (y=mx + B), or any two points



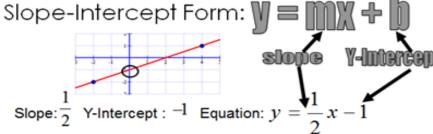
Given two points: $(x_1, y_1) (x_2, y_2)$ Slope Formula: $y_2 - y_1$ $X_2 - X_1$

Slope Intercept Form

Visual Example: What I Think

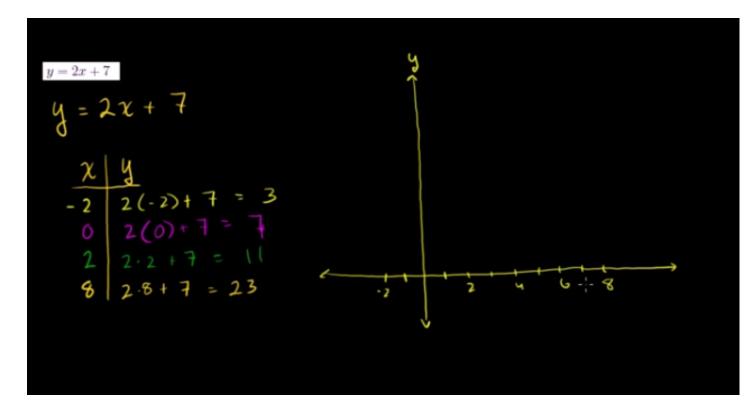
A form of a linear equation, y=mx+b, where m is the slope and b is the y intercept of the graph of the equation.

Comparing My Thoughts



How to Graph Linear Equations Using Table

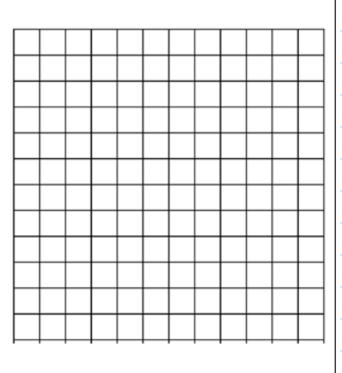
Method 1- Create a Table of Values



https://www.khanacademy.org/math/algebra/linear-equations-and-inequalitie/graphing solutions2/v/graphs-of-linear-equations

How to Graph Linear Equations Using M and B

Method 1- Using Slope Intercept Form



Guided Practice

1 Graph the equation $y = \frac{3}{2}x + 1$.

Table of Values	Slope Intercept Form	
_		_
_		
_		_
_		_
_		_
_		_
_		_
_		_
_		_

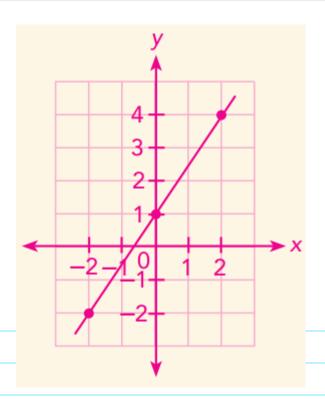
Guided Practice

1 Graph the equation $y = \frac{3}{2}x + 1$.

Table of Values

х	-2	0	2
у	-2	1	4

Slope Intercept Form



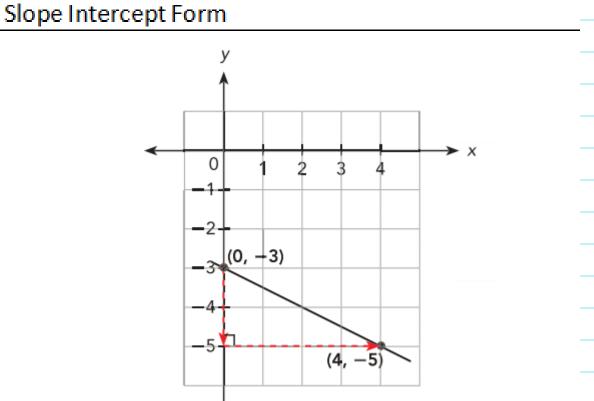
Guided Practice

Graph the equation
$$y = -\frac{1}{2}x - 3$$

	Slope Intercept Form	
	Siope intercept roini	

Guided Practice

Graph the equation
$$y = -\frac{1}{2}x - 3$$



Lesson 5.2 Solving Systems of Linear Equations Using Substitution Method

Ticket Out the Door-

How do you graph linear equations? Which method do you prefer? Why?