Agenda

Homework:

- DistanceFormula WS
- AM

Materials:

- Math Notebook

Do Now:

- 1. Take out homework
- 2. ON YOUR DESK:

 $(3.2x10^3)(2.1x10^8)$

Find the missing side:



Do Now

 $(3.2x10^3)(2.1x10^8)$

Find the missing side:



Homework Review

Set Up Cornell Notes



- Topic: Distance Formula
- EQ: What is the distance formula and how do you use it to find the distance between two points?

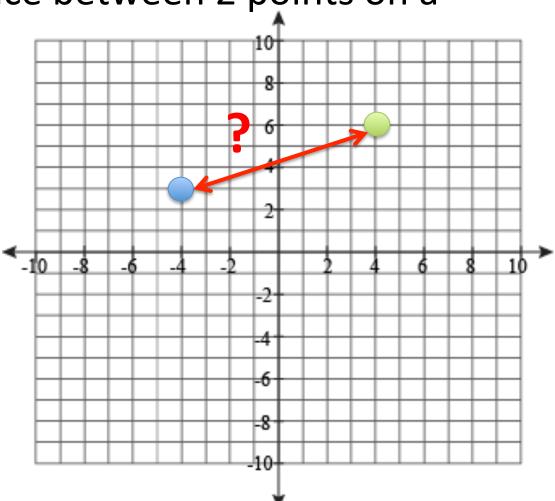
Update Table of Contents

Date	Topic
12/2 (Pd. 1&2)	Distance Formula
12/5 (Pd. 4)	

Objective

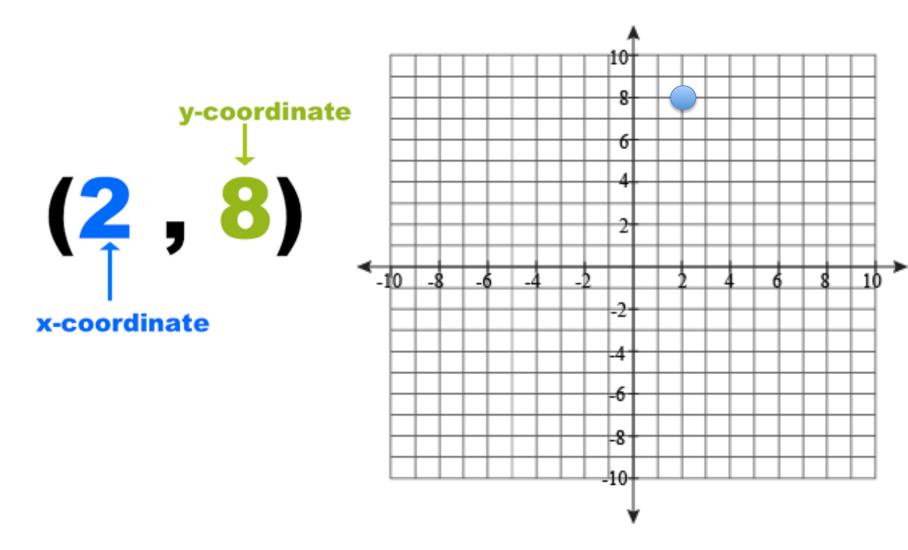
To find the distance between 2 points on a

coordinate plane





What are the different parts of a coordinate?



How can we use the Pythagorean Theorem to find the distance between 2 points?

Let's say I have 2 points:
(1, 1) and (6, 7)

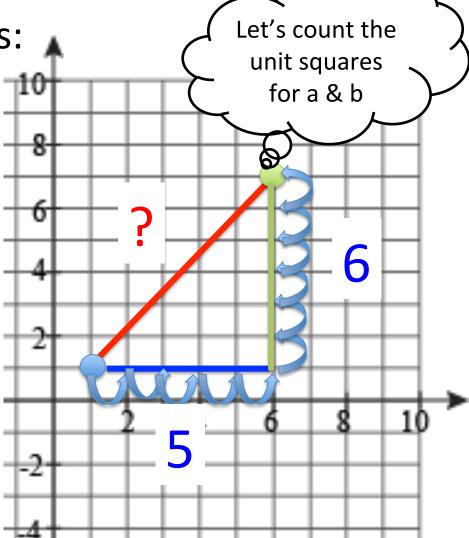
Do you see the right triangle?

$$(5)^{2} + (6)^{2} = c^{2}$$

$$25 + 36 = c^{2}$$

$$\sqrt{61} = \sqrt{c^{2}}$$

$$7.8 = c$$



What is the distance formula?

 Let's say I have 2 points: (1, 1) and (6, 7) (6,7)



What is the Distance Formula?

To find the distance between 2 points
 (x₁, y₁) & (x₂, y₂)

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$



How can we use the Distance Formula to find the distance between 2 points?

Let's say I have 2 points:

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

