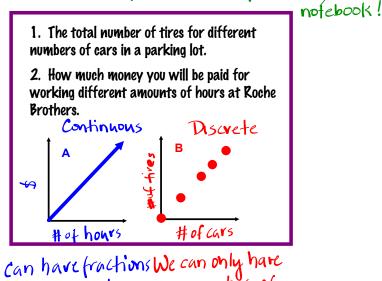
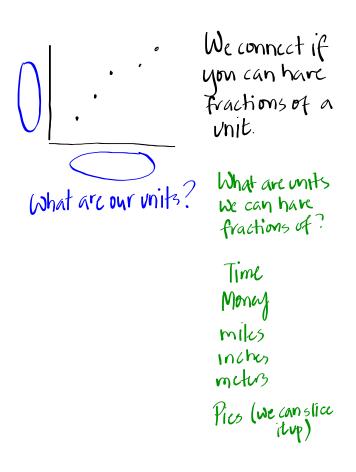
Warm Up

Which graph could **model** each of the following situations? Be ready to explain why. Draw a sketchof each in your



of hours and whole numbers of dollars. Whole numbers of cars and tires



How to check your homework.

Answer keys can be found on line for all ACE questions.

Helpful Links	Week of S	eptember 3		
Vacabulari		Objective(s)	Classwork	Homework
Vocabulary	Monday			
Graph Paper Graphing Calc.	Tuesday	SWBAT 1) identify functions from tables and graphs, and 2) use function notation.	- Distribute textbooks - What is a function?	- <u>Function Practice</u>
	Wednesday	SWBAT recognize linear and nonlinear patterns in tables and graphs, and use data patterns to make predictions.	- Collect data for Problem 1.1 and Problem 1.2 (1.1A and 1.2A) - Complete Problems 1.1 and 1.2	- Finish Problem 1.1 and Problem 1.2
		SWBAT recoonize linear		

Homework Questions?

Page 16, # 2

2. A group of students conducted the bridge-thickness experiment with construction paper. The table below contains their results.

Bridge-Thickness Experiment

Number of Layers		2	3	4	5	6	
Breaking Weight (pennies)		20	29	42	52	61	

Avc = 9.5

- **a.** Make a graph of the (number of layers, breaking weight) data. Describe the relationship between breaking weight and number of layers.
- **b.** Suppose it is possible to use half-layers of construction paper. What breaking weight would you predict for a bridge 3.5 layers thick? Explain.



c. Predict the breaking weight for a construction-paper bridge of 8 layers. Explain how you made your prediction.

12 Bridge Length and Strength

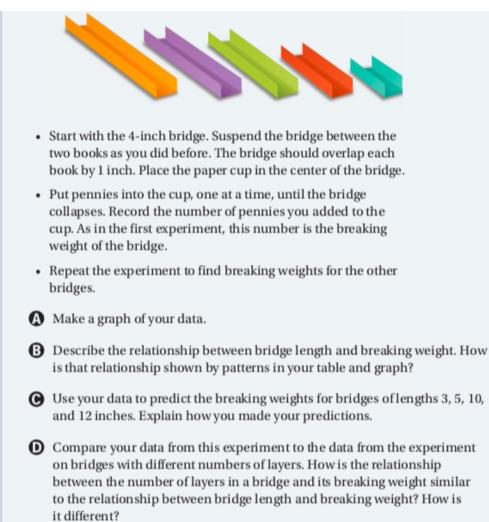
In the last problem you tested the strength of some paper bridges. You found that bridges with more layers are stronger than bridges with fewer layers.

- How do you think the length and strength of a bridge are related?
- Are longer bridges stronger or weaker than shorter bridges?

Set up your notebook:

1.2 Bridge Length and Strength Date

Length (in)	4	6	8	9	[]
Breaking Weight (# of punnics)					



Homework

Finish Problem 1.2