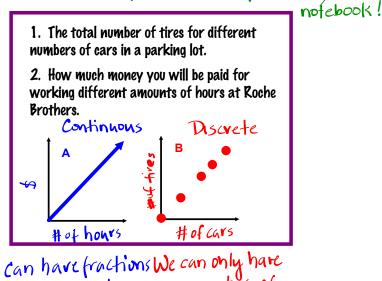
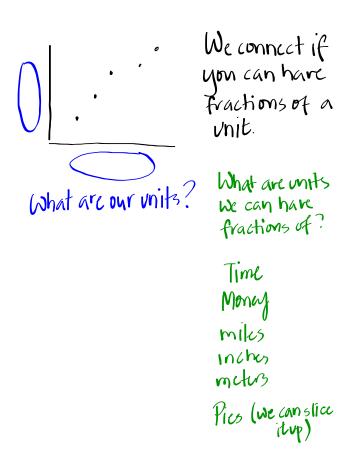
#### Warm Up

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?**

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**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.

# **1**2 Bridge Length and Strength

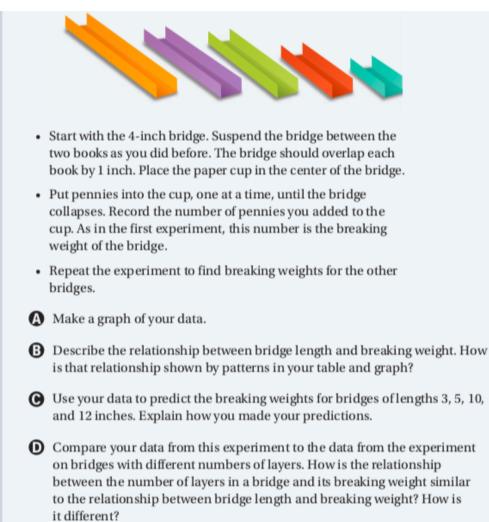
In the last problem you tested the strength of some paper bridges. You found that bridges with more layers are stronger than bridges with fewer layers.

- 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