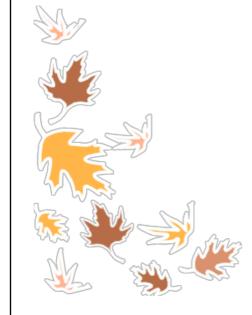
# Agenda:

PS #1 due tuesday

- 1) Correct question #1 from lesson 6
- 2) Graph Activity- Art Gallery Compare/ Contrast
- 3) trail
- 4) Homework: review sheet



"Unit Price Project"	
Name: Mrs. Bennett	date: Math 7
Student Task Sheet	

In the ratios and proportions unit we have been studying, you have learned to find unit rates and unit prices. You have also learned to compare unit prices.

In this assignment I am asking you to calculate the unit price of 10 different household items. Display your items on a poster. Next to each item you should include your calculations to find each unit price. Your poster should include a title as well. To go along with your poster you must write a paragraph detailing your findings? Some things you may want to include in your paragraph are which item had the lowest unit price and which item had the highest unit price. You could also compare different brands of the same item. For example, maybe Tide detergent is less expensive per ounce than All detergent. You may want to write about the usefulness of comparing unit prices.

## You will be graded on:

### Completion:

- Poster with title and 10 objects
- · Calculations are included for each item
- · Paragraph summarizing findings

### Mathematical Concepts:

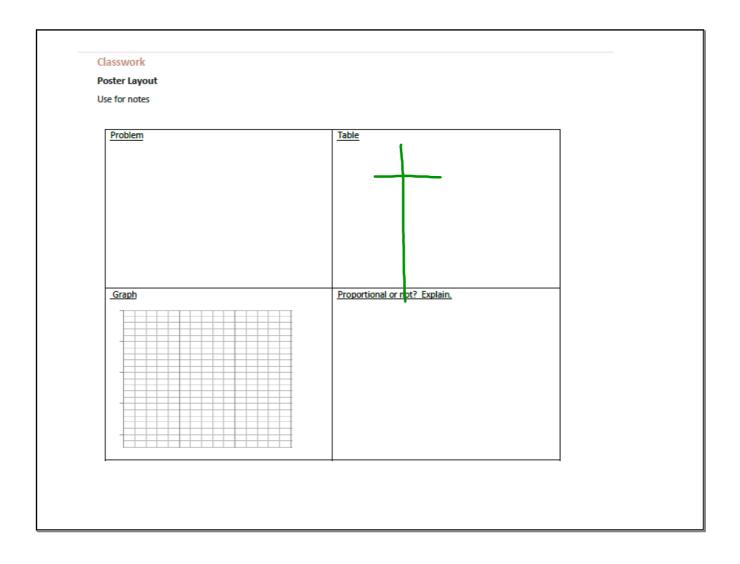
- · Proportions showing all calculations
- · Correct mathematical work
- Paragraph correctly compares items

#### Presentation:

- Title
- Labels
- · Proportions are shown
- · Paragraph has no spelling or grammatical errors

#### Timeliness:

- · Poster is due 2 weeks from today
- Due date \_\_/ \_\_\_/ \_\_\_



Gallery Walk: Take notes and answer the following questions:

- Does the graph show a proportional relationship? How do you know?
- Does the table show a proportional relationship? How do you know?
- What are the similarities/ differences between the posters?

Poster 1: - NOt Profortional
Because it doesn't
meet the oragin.

217
Poster? Proportional
because it is a
constant rate

not a straight

4 not prop. Poster 5 Nonproportional not a straight line

b not proportional does not but origin

7 proportional

- Motobartierar



Lesson Summary:		
	<ul> <li>The graph of two quantities that are proportional fall on a straigl</li> </ul>	nt line that
passes through the origin.	2. The graph of two qualitates that are proportional fail on a straigh	it inc that
Note about Lesson Summary		

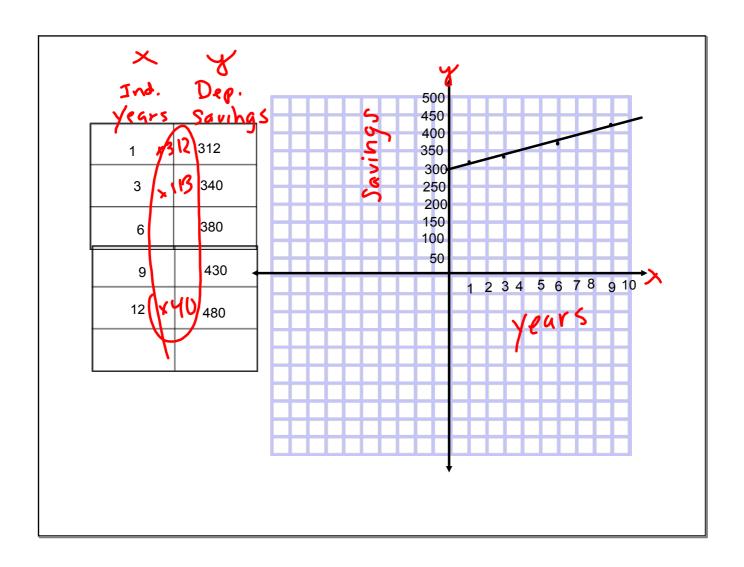
#### Problem Set

- Sally's aunt put money in a savings account for her on the day Sally was born. The savings account pays interest
  for keeping her money in the bank. The ratios below represent years to amount of money in her savings
  account.
  - After one year, the interest had accumulated and the total was \$312 in Sally's account.
  - After three years, the total was \$340. After six years, the total was \$380.
  - After nine years, the total was \$430. After 12 years, the total amount in Sally's savings account was \$480.

Using the same four-fold method from class, create a table then graph and determine whether the amount of money accumulated and time elapsed are proportional to each other or not. Use your table and graph to support your reasoning.

The relationship is not proportional because though the graph is a straight line, it does not pass through the origin (0,0). By looking at the table I can also say that the relationship is not proportional because there is not a constant number that the years are multiplied by to get the amount of money.

```
work: 312/1 = 312
340 / 3 = 113.33
380/6 = 63.33
430/9 = 47.77
480/12 = 40
```



Ratio and Proportions Quiz 1 Review

Name

1. What is a ratio? Show 2 ways to write the ratio of 3 boys to 4 girls.

comparison 3:4 3to 4 3/4

2. What is a unit rate?

- ratio with denominator of 1
- used to compare

3. At Dunkin Donuts, it costs \$4.99 for a dozen donuts. To the nearest cent, what is the cost of one donut?

$$\frac{4.99}{12} = 1.42$$

4. Kelly can type 240 words in 5 minutes and Jessica can type 315 words in 7 minutes. Who is the faster typist? Show your work and explain how you know your answer is correct.

$$(Kelly \frac{340}{5} = 48)$$
 Jessica  $\frac{315}{7} = 45$ 

5. Helen made pink icing for her Christmas cookies by mixing the following.

Red Dye (drops)	25	3125	10
Icing (cups)	1.5	2.5	3.5

Roddye is not proportional to amount of y The amount of blue

6. A container leaks 
$$\frac{6}{8}$$
 gallons in  $\frac{1}{3}$  of an hour. What is the rate that the container leaks in gallons per hour? Required each tration or table

$$\frac{6}{8}$$
 gallons in  $\frac{1}{3}$  of an hour. What is the rate that the container leaks in gallons per hour? Required each tration or table

$$\frac{6}{8}$$
 gallons in  $\frac{1}{3}$  of an hour. What is the rate that the container leaks in  $\frac{6}{8}$  and  $\frac{6}{8}$  and  $\frac{1}{8}$  and  $\frac{1}{8}$ 

7. Sarah can write 1 ½ pages in 3 minutes. How many pages can she write in 12 minutes?

1 = pap × 4 6 3 minx 4 12 min 8. Complete the table showing the cost for a given number of rides at the fair.

Number of	Cost
Rides	
2 بر ا	3
2 <b>x</b>	3 6
3	9
4	12
5	15

Graph the relationship on the grid.Be sure to label the axes.

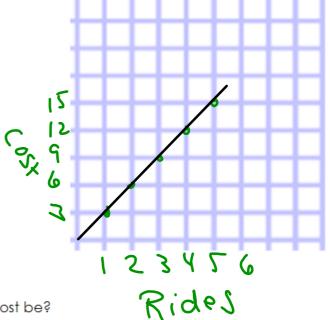
10. Is this a proportional relationship? Explain your answer.

Straight line through (0,0)

11. What does the point
(4, 12) represent

4 rides cost 12

12. If you go on 8 rides, what will the cost be?



ratios and proportions lesson 6 continued.notebook

**September 16, 2016**