

1. Assume each of the following represents a table of equivalent ratios. Fill in the missing values. Then choose one of the tables and create a real-world context for the ratios shown in the table.

a)

?	?
	22
12	
16	44
	55
24	66

b)

?	?
	14
15	21
25	35
30	

Table \_\_\_\_\_ Story: \_\_\_\_\_

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2. Javier has a new job designing websites. He is paid at a rate of \$700 for every 3 pages of web content that he builds. Create a ratio table to show the total amount of money Javier has earned in ratio to the number of pages he has built.

Total Pages Built						
Total Money Earned						

Javier is saving up to purchase a used car that costs \$9,100. How many web pages will Javier need to build before he can pay for the car?

3. Spraying plants with “cornmeal juice” is a natural way to prevent fungal growth on the plants. It is made by soaking cornmeal in water, using two cups of cornmeal for every nine gallons of water. Complete the ratio table to answer the questions that follow.

- a. How many cups of cornmeal should be added to 45 gallons of water?
- b. Paul has only 8 cups of cornmeal. How many gallons of water should he add if he wants to make as much cornmeal juice as he can?
- c. What can you say about the values of the ratios in the table?

Cups of Cornmeal	Gallons of Water

4. The tables below show the comparison of the amount of water to the amount of juice concentrate (JC) in grape juice made by three different people. Whose juice has the greatest water-to-juice concentrate ratio, and whose juice would taste strongest? Be sure to justify your answer.

Laredo’s Juice		
Water	JC	Total
12	4	16
15	5	20
21	7	28
45	15	60

Franca’s Juice		
Water	JC	Total
10	2	12
15	3	18
25	5	30
40	8	48

Milton’s Juice		
Water	JC	Total
8	2	10
16	4	20
24	6	30
40	10	50

a. Put the juices in order from the juice containing the most water to the juice containing the least water.

\_\_\_\_\_

b. Explain how you used the values in the table to determine the order.

c. What ratio was used to create each table?

Laredo: \_\_\_\_\_

Franca: \_\_\_\_\_

Milton: \_\_\_\_\_

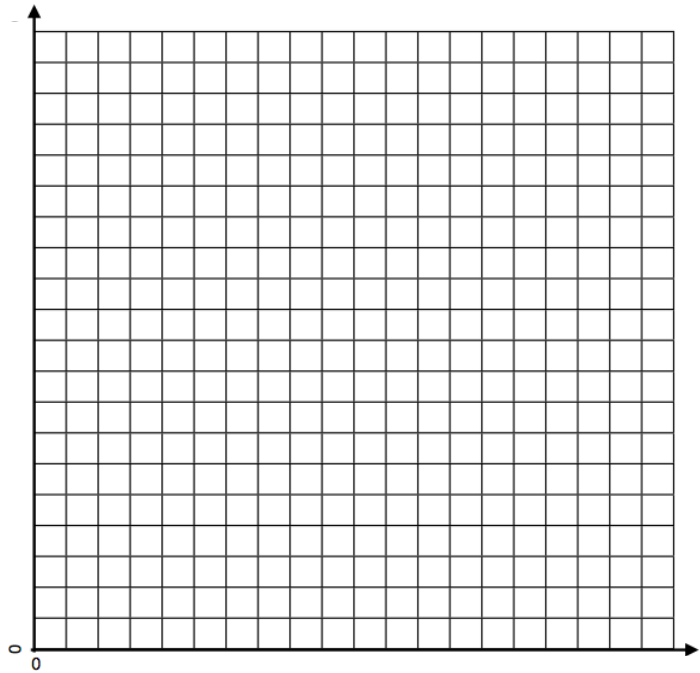
5. A chef from a local Italian restaurant demonstrated how he makes fresh pasta daily for his restaurant. The recipe for his pasta is below:

- 3 eggs, beaten
- 1 teaspoon salt
- 2 cups all-purpose flour
- 2 tablespoons water
- 2 tablespoons vegetable oil

a. Determine the ratio of tablespoons of water to number of eggs.

b. Provided the information in the table below, complete the table to determine ordered pairs. Use the ordered pairs to graph the relationship of the number of tablespoons of water to the number of eggs. Don't forget to add the ordered pair for not making the recipe.

Tablespoons of Water	Number of Eggs
2	
4	
6	
8	
10	
12	



c. How many eggs would be needed if the recipe called for 16 tablespoons of water?

d. Determine how many tablespoons of water will be needed if the chef is making a large batch of pasta and the recipe increases to 36 eggs.

6. Complete the following ratio tables to record the cost of different weights of fruit.

<b>Kilo of Melon</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>Cost</b>				<b>\$2.70</b>	<b>\$3.60</b>		

<b>Kilo of Banana</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>Cost</b>		<b>\$0.50</b>					

<b>Kilo of Kiwi</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>Cost</b>			<b>\$5.60</b>			

Use the tables above to draw 3 graphs, one for each fruit on the same coordinate axis. Number the horizontal axis (x) 0 through 8 and the vertical axis (y) in one-dollar intervals. Label each axis. Plot as many points as your graph will allow. Use a different color pencil to graph each fruit. Label each graph with the name of the fruit.

- What similarities or differences do you see between the graphs?
- Which graph is the steepest? Which graph is the flattest?

*Examine* the table for the cost of candy. Compare it to the data you have graphed, but do not graph the data.

<b>Candy</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>8</b>
<b>Cost</b>	<b>\$2.00</b>	<b>\$4.00</b>	<b>\$6.00</b>	<b>\$8.00</b>	<b>\$10.00</b>	<b>\$16.00</b>

If you were to graph the candy data, which graphs would it be steeper than? Flatter than?

**Show using a graph comparing all 4 products. (x number of units, y total cost)**