

RATIO TABLES

A ratio _____ is a way to _____ quantities.

1. Todd earns \$3 for every 5 chores he completes on his chore chart. Find equivalent ratios using the ratio table below.

CHORES	TOTAL (\$)		RATIO CHORES TO TOTAL
		→	
		→	
		→	
		→	
		→	

a. How are the number of chores and the amount of money earned related? _____

b. How are the values in the chores column related? _____

c. How are the values in the total column related? _____

d. What do you notice about the ratio column? _____



2. Mr. Baker is making pancakes and reads the recipe on the back of the pancake box. Use the information in the table to determine the ratio of the cups of pancake mix to cups of water.

CUPS OF PANCAKE MIX	1	2	3	4	5	6
CUPS OF WATER	1.5	3	4.5	6	7.5	9

a. What is the constant ratio?

b. How many cups of pancake mix will be needed if there are 15 cups of water?

In questions 3-4, complete the ratio table, and then answer the questions below.

3. A cookie recipe calls for 3 eggs for every 2 dozen cookies.

EGGS				
COOKIES (DZ)				

a. How many cookies can be made with 12 eggs?

b. How many eggs will be needed for 60 dozen cookies?

4. A developer earns \$6.00 for every 21 apps downloaded.

APPS				
\$ EARNED				

a. How many apps will need to be downloaded in order to earn \$84?

b. How much money will the developer earn when 105 apps are downloaded?

Use your understanding of ratios and ratio tables to answer the questions below.

5. The relationships between the number of babies to the number of nursery workers is shown in the table below.

BABIES	WORKERS
5	2
10	4
15	6
20	8

a. What is the ratio of babies to nursery workers?

b. How many nursery workers are required if there are 35 babies?

c. If seven nursery workers are available, then what is the maximum number of babies that they can accept?

6. Ms. Halpert wrote the table on the board and asked for her students to find the missing value. Who found the correct missing value?

# OF CUPS OF COFFEE	COST (\$)
4	10.60
6	15.90
9	?
12	31.8

ERIN

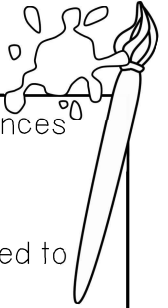
I subtracted 15.90 and 10.60, then added 5.30 and 15.90, so 9 cups of coffee is \$21.20.

OSCAR

I divided 10.60 by 4 and found 1 cup of coffee is \$2.65, so 9 cups of coffee is \$23.85.

Summarize today's lesson:

RATIO TABLES



Use your understanding of ratio tables and graphs to answer the questions below.

1. An artist mixes yellow and blue paint to make the perfect shade of green. She uses 2 ounces of blue paint for every 7 ounces of yellow.

BLUE	YELLOW		RATIO
		→	
		→	
		→	
		→	
		→	

a. How many ounces of yellow will the artist need to add to 12 ounces of blue?

b. The artist realizes she has 49 ounces of yellow left. How many ounces of blue will she need to add?

c. If the mixing container only holds 40 ounces of paint, what is the most green paint the artist can make, and what recipe should she use?

2. Mark owns a personal training business. He makes a total of \$500 for every 3 clients he acquires.

# OF CLIENTS	TOTAL \$		RATIO
		→	
		→	
		→	
		→	

a. If Mark is saving to purchase \$2,500 in new equipment, how many clients will he need?

b. How much money will 21 clients bring in?

c. Mark hopes to one day earn \$10,000. Predict how many clients Mark would need to train.

3. Alexander has a collection of baseball cards he wants to organize into a book. Use the table to determine how many pages he will need to hold 234 cards.

PAGES	3	6	9	12
CARDS	18	36	54	72