

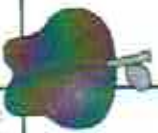
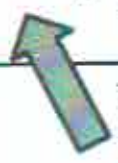
Ratio and Proportional Reasoning

Review Packet



1. What is the definition of a ratio?	2. There are 22 students in your math class. 9 are boys and the rest are girls. Express the relationship of boys to girls as a ratio.
3. For every 3 sodas sold at a baseball game, 9 bottles of water were sold. Express this relationship as a ratio in simplest form.	4. Write out your answer to #2 as a sentence. (For every ... there are ...)
Show work here	

Dates : _____ & _____



1. You can buy a 10 pound bag of apples for \$12.70. Express this situation as a ratio.	2. What is the cost per pound?
3. How many apples can you buy for \$1? Round to the nearest thousandth.	4. Can you write a ratio for #1 in more than one way?
Show work here	
Explain why or why not in the "show work here" box below.	

My score: 1 2 3 4

My score: 1 2 3 4



1. Write a ratio to express the situation below.

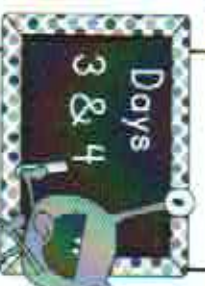
2. Write out your answer to #1 as a sentence.

3. Forty pounds of dog food cost \$50. What is the unit rate?

4. How much would 35 pounds of this dog food cost?

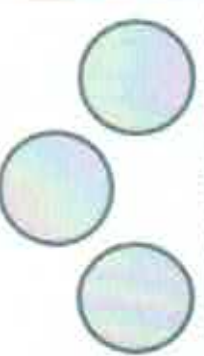


Show work here



1. If one foot = $\frac{1}{3}$ of a yard, how many feet are in 8 yards?

2. Four kids must share 3 pizzas. Divide up the pizzas below to show how much each kid will get. Label the sections with a 1, 2, 3 or 4.



3. What is the definition of a unit rate?

4. Use the double tape diagram below to represent someone who runs 15 miles in 3 hours.



Show work here

Dates : _____ & _____

My score: 1 2 3 4

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1. At Sol's Scuba Shop, you can get 3 hours of lessons for \$225. What is the cost per hour?

2. How whole many hours of Sol's Scuba lessons can you get for \$550?



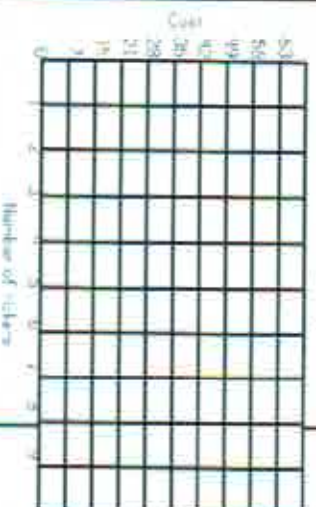
1. Three movie tickets at Mauro's Movie Theater cost \$21. Express this situation as a ratio.

2. Complete the table regarding tickets at Mauro's Movie Theater

Tickets	Cost
2	
6	
8	

3. Plot the data from the table in #2 on the graph.

4. What is the cost per ticket?



Show work here

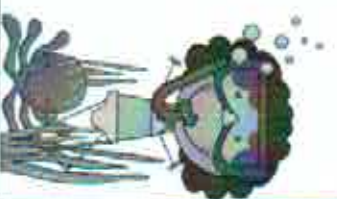


3. How much would it cost for 4.5 hours of lessons from Sol's Scuba Shop?

4. Complete the table using the cost for lessons from Sol's.

Hours	Cost
2	
4	
5	

Show work here



Dates : _____ & _____

My score: 1 2 3 4

My score: 1 2 3 4

1. The ratio of cups of sugar to cups of chocolate chips in a recipe is $2 : 4$. If 36 cups of these ingredients are used, how many cups were sugar?

2. Write a ratio in simplest form to represent the situation below.



3. Complete the table below to determine how many centimeters are in 6 inches.

in	1	2	4	6
cm	2.54	5.08	10.16	

4. An airplane traveled the 890 miles between Orlando and Baltimore in 2 hours. 10 minutes. How fast did the airplane travel per minute? Round to the nearest hundredth.

Show work here

Days
7 & 8

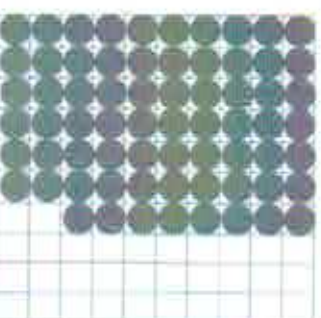
1. A cookie recipe calls for 3 cups of flour for every egg. How many cups of flour are needed if there are 6 eggs?



2. What is the definition of a percent?

3. There are 7 boys and 3 girls on the track team. What is the girl to boy ratio?

4. What percent of the chart is shaded?



Show work here

Dates : _____ & _____

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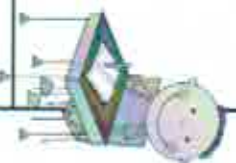
1. Use the double tape diagram below to represent using 4 cups of sugar for every cup of flour.

2. Emma and Gavin both worked at a pizza place. The ratio of money they earned in tips was 2:3. If Emma earned \$40, how much did they make all together?

3. Grapes cost \$1.75 per pound. How much do 0.4 pounds of grapes cost?

4. Tyrell scored an 80% on his math test. If there were 40 questions, how many did he get correct?

Show work here:



Dates : _____ & _____

1. At Pippy's Pizza Palace you can get a 12 inch pizza for \$10.50 or a 16 inch pizza for \$12. Which pizza is the better buy? (Use lower unit rate = better buy)

2. A survey found that there are 3 baby girls born for every 2 baby boys at Happy Med Center each month. If there were 38 boys born in April, how many girls were born?



3. At Happy Med Center, there were 81 girls born in December. Using the ratio from #2, determine how many boys were born that month.

4. What percent is 15 out of 75?

Show work here:

My score: 1 2 3 4

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1. 60% of the boys on the basketball team have on black shoes. If 18 boys are wearing black shoes, how many are on the basketball team?



2. Jill, Jan & Jo were nominated for Winter Dance Queen. Of the 120 students who voted, 70 voted for Jill, 30 for Jan, and 20 for Jo. What was the ratio of votes for Jill to votes for Jan?

3. What was the ratio of votes for Jill to votes for Jo?

4. What was the ratio of votes for Jo to votes for Jan?

Show work here



Days
11 & 12



1. For every 5 hotdogs sold at a football game, 4 cheeseburgers were sold. Express the relationship between hotdogs and hamburgers as a ratio in simplest form.

2. What percent is 20 out of 80?

3. 1 mile is equal to 5,280 feet. Jake ran 4.5 miles today. What is the distance of his run in feet?

4. A dozen roses cost \$45. How much do 9 roses cost?

Show work here



My score: 1 2 3 4

Dates : _____ & _____

My score: 1 2 3 4

1. Ernest can read 9 chapters of a book in 4 days. How many chapters can he read each day?

2. How many chapters of a book can Ernest read in two weeks?



1. 1 inch on a map is equal to 34.5 miles. If the distance between two points on a map is 3.5 inches, how far is that in miles?

2. Are the ratios below equivalent?

$$\frac{1}{3} \quad \frac{10}{30}$$

3. Complete the ratio table below.

3	2
9	6
27	
	54

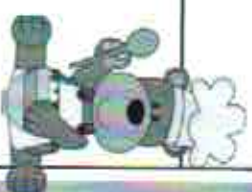
4. Recipe one calls for 4 cups of sugar for every 3 cups of flour. Recipe two calls for 5 cups of sugar for every 4 cups of flour. Which recipe has the highest ratio of sugar to flour?

3. If Ernest reads for an 5 hours each day, how many chapters can he read each hour?

4. What is 30% of 50?

Show work here

Show work here



Dates : _____ & _____

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My score: 1 2 3 4