Math Learn from Home Packet
Teacher: Mrs. Whitaker
Contact: greensh@boe.richmond.k12.ga.us
Availability: Monday-Friday 9 am. – 4 pm.

All Assignments must be completed upon returning on January 26th.

- Ratios
- Rates
- Using Ratios and rates to Solve Problems
- Ratios, Rates, Tables, and Graphs
- Solving Problems with Proportions
- Convert within Measurement Systems
- Converting between Measurement Systems

Even though this is new material, please access youtube videos and the information given to complete these assignments.

Continue to complete iReady Math lessons. At least 20 minutes per day should be spent in the platform.

If you have any questions, please feel free to email me.
Stay safe.

Love,
Mrs. Whitaker

Boys → 3
Girls → 4

3:4
boys girls

3 to 4
boys girls

RATIOS

Ratios can compare any of the parts with the whole.

girls to boys

$\frac{4}{3}$ 4:3

4 to 3

girls to class

$\frac{4}{7}$ 4:7

4 to 7

class to boys

$\frac{7}{3}$ 7:3

7 to 3

Name _____ Date _____ Class _____

LESSON 6-1

Ratios

Practice and Problem Solving: A/B

The number of animals at the zoo is shown in the table. Write each ratio in three different ways.

1. lions to elephants

   _____

2. giraffes to otters

   _____

3. lions to seals

   _____

4. seals to elephants

   _____

5. elephants to lions

   _____

Animals in the Zoo	
Elephants	12
Giraffes	8
Lions	9
Seals	10
Otters	16

Write three equivalent ratios for the given ratio.

6. $\frac{4}{3}$ _____

7. $\frac{12}{14}$ _____

8. $\frac{6}{9}$ _____

Find three ratios equivalent to the ratio described in each situation.

9. The ratio of cats to dogs in a park is 3 to 4. _____

10. The ratio of rainy days to sunny days is $\frac{5}{7}$. _____

11. The ratio of protein to fiber in a granola bar is $\frac{9}{2}$. _____

12. The ratio of clown fish to angelfish at a pet store is 5:4. The ratio of angelfish to goldfish is 4:3. There are 60 clown fish at the pet store.

    a. How many angelfish are there? _____

    b. How many goldfish are there? _____

Name _____ Date _____ Class _____

LESSON 6-2

Rates

Practice and Problem Solving: A/B

Find the unit rate.

1. David drove 135 miles in 3 hours. _____
2. Three medium apples have about 285 calories. _____
3. A 13-ounce package of pistachios costs $5.99. _____

Use the information in the table to solve Exercises 4–6.

Morgan's favorite spaghetti sauce is available in two sizes: pint and quart. Each size and its price are shown in the table.

Size	Quantity (oz)	Price ($)
pint	16	3.98
quart	32	5.98

4. What is the unit rate to the nearest cent per ounce for each size?

   a. pint: _____ b. quart: _____

5. Which size is the better buy? _____
6. A coupon offers $1.00 off the 16-ounce size. Which size is the better buy then?

   _____

Find the unit rate to the nearest cent per ounce. Compare.

7. a. A 24-ounce box of cornflakes costs $4.59. _____

   b. A 36-ounce box of cornflakes costs $5.79. _____

   c. Which is the better buy? _____

Solve.

8. Karyn proofreads 15 pages in 2 hours for $40.

   a. What is her proofreading rate in pages per hour?

   _____

   b. How much does she receive on average for a page?

   _____

Name _____ Date _____ Class _____

LESSON 7-1

Ratios, Rates, Tables, and Graphs

Success for English Learners

Problem 1

The table shows the cost of cereal and the amount of cereal for each amount of money. Write the ratios of ounces to cost.

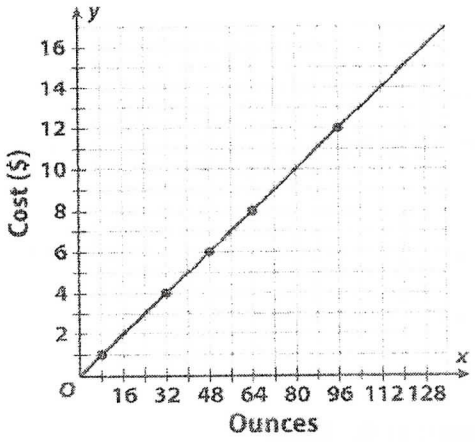
Cereal (oz)	8	32	48	64	96
Cost	$1	$4	$6	$8	$12

$$\frac{\text{ounces}}{\text{cost}} = \frac{8}{\$1} = \frac{32}{\$4} = \frac{48}{\$6} = \frac{64}{\$8} = \frac{96}{\$12}$$

Problem 2

Write the ratios as ordered pairs. Graph the ordered pairs and draw the line.

(8, 1), (32, 4), (48, 6), (64, 8), (96, 12)



1. How would the ratios change if the problem asked for the ratios of cost to ounces?

_____

2. How would the graph change?

_____

3. Make your own table of ratios of gallons of gas used to the miles traveled. Write the ratios as ordered pairs.

Gas (gal)					
Miles					

_____