

# Weekly 10 CC6 Ratios/Proportions Name \_\_\_\_\_

## MONDAY

1.  $1\frac{3}{7} - (-2\frac{2}{5}) =$  \_\_\_\_\_ 2.  $4 - 2 + 3 + 5(-3) =$  \_\_\_\_\_ 3. \_\_\_\_\_  $4 + 3(2y + 6) = 10y + 12$

4. Which is a better buy? Find the unit rate of each to compare.  
 PRODUCT A 50 ounces for \$13.50 OR PRODUCT B 42 ounces for \$10.92  
 Unit Rate \_\_\_\_\_ Unit Rate \_\_\_\_\_

5. Use the graph below.

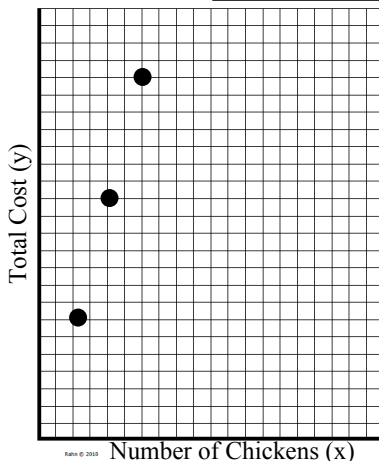
Verbal Sentence \_\_\_\_\_

Algebraic Equation \_\_\_\_\_

Unit Rate/C of P/ \_\_\_\_\_

Complete the table.

2		6
	14	



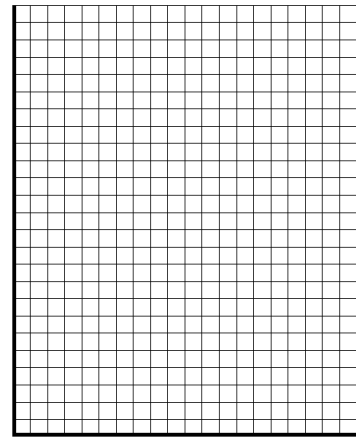
6. Use the table

Algebraic Equation \_\_\_\_\_

Unit Rate/C of P/ \_\_\_\_\_

Graph the equation.

x	1	2	3
y	5	10	15



7.  $\frac{9 + 4w}{10} = \frac{12}{7}$

8.  $\frac{5}{4} = \frac{28}{m}$

9.  $\frac{5f}{10} = \frac{f + 2}{6}$

10. If James scored 192 points in 15 games, how many points would you expect him to score in the next 4 games?

## TUESDAY

1.  $-8 - 2(4) + 10 =$  \_\_\_\_\_ 2.  $\frac{-1\frac{1}{3}}{-3\frac{2}{9}} =$  \_\_\_\_\_ 3. \_\_\_\_\_  $8 + \frac{c}{4} = \frac{3}{5}$

4. Karen's pet rabbits eat 72 ounces of food in 4 days. **Draw a double line graph** to solve for the unit rate \_\_\_\_\_, and how many ounces the rabbits will eat in 6 days \_\_\_\_\_, and 8 days \_\_\_\_\_.

5.  $\frac{?}{8} = \frac{15}{28}$

6.  $\frac{75}{?} = \frac{90}{32}$

7.  $\frac{\frac{1}{3}}{5} = \frac{\frac{3}{5}}{?}$

8. Chris ran  $\frac{3}{8}$  of a mile in 25 minutes. If he continues at the same pace, how long will it take him to run  $1\frac{3}{4}$  miles?

9. In a race across Peru, Hans Steiman rode 1003.5 miles in 45 hours. Find his unit rate \_\_\_\_\_.  
 At the same pace, how long would it take him to ride 625 miles? \_\_\_\_\_

10. It took  $3\frac{1}{4}$  hours to call down  $\frac{3}{11}$  of the HMS 7 students for dental screenings. How many total hours will it take the school to complete the screenings? \_\_\_\_\_

11. Pizza slices cost \$2 each.

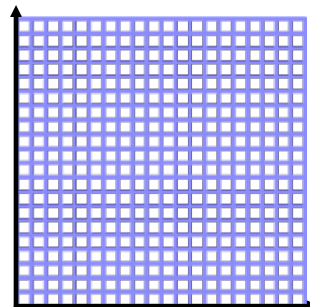
Write an equation comparing price (p) and slices (s) \_\_\_\_\_

What is the Constant of Proportionality? \_\_\_\_\_

Fill in the table.

s	1	2	5
p			

Graph the equation.

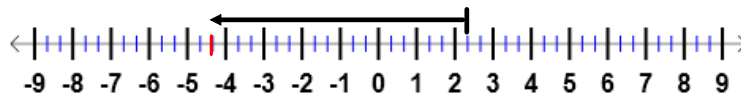


## WEDNESDAY

1.  $4(2 - 7)^2 - 5 + 3 =$  \_\_\_\_\_ 2. No Calculator  $5.38 \times 2.7 =$  \_\_\_\_\_

Write the problem and answer that is shown on the number line.

3. \_\_\_\_\_



4. \_\_\_\_\_  $\frac{h+5}{7} = 15$  5. \_\_\_\_\_  $\frac{3}{20} = \frac{14}{?}$  6. \_\_\_\_\_  $\frac{3}{2+v} = \frac{14}{35}$

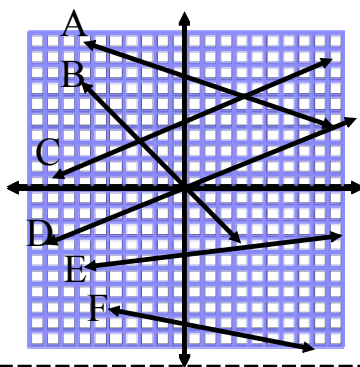
7. Is the relationship proportional? Yes OR No

If it is proportional, what is the constant of proportionality? \_\_\_\_\_

4	3	11	15
36	27	99	135

8. Seven fishing boats can carry a total weight of 7840 pounds. What is the unit rate? \_\_\_\_\_  
How many boats would it take to carry 13,440 pounds? \_\_\_\_\_

9. List all that are proportional. \_\_\_\_\_ 10. Find the Constant of Proportionality for each.



a. \_\_\_\_\_

2	5	6	15
7	17.5	21	52.5

- b. \_\_\_\_\_ Sam ran 200 meters in 25 seconds.

- c. \_\_\_\_\_ A proportional relationship is graphed and goes through the point (4, -12).

- d. \_\_\_\_\_

Number of Bikinis	Price
3	\$54
7	\$126
8	\$144

## THURSDAY

Solve for the variable. Answer as fractions if it does not come out even.

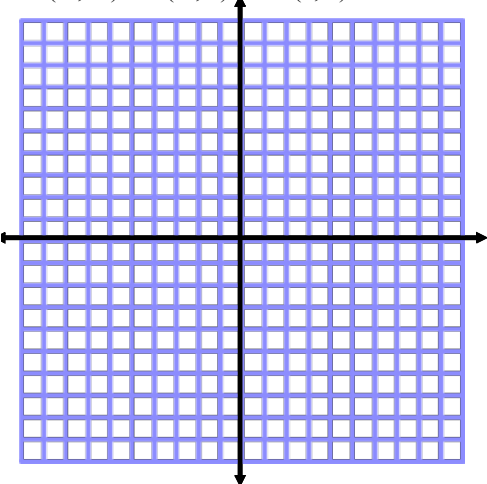
1. \_\_\_\_\_  $2(8j + 6) = 4(3 + 4j)$  2. \_\_\_\_\_  $7g = 9(3 - 5g)$  3. \_\_\_\_\_  $\frac{m-3}{4} > 8$

4. I purchased 40 bottles of Mt Dew for my 8 day supply. Write this as a unit rate \_\_\_\_\_.  
Complete a double line graph to show the number of bottles for 4 days \_\_\_\_\_ and 2 days \_\_\_\_\_.

5.  $\frac{9}{5} = \frac{108}{?}$  6.  $\frac{7}{?} = \frac{5}{24}$  7.  $\frac{w+2}{6} = \frac{3w}{4}$

8. Plot the following points.

A. (-2, 7) B. (5, -3) C. (0, 8)  
D. (-1, -6) E. (-9, 0) F. (7, 4)



9. Graph the following equations. STAR each that is proportional.

A.  $y = \frac{1}{4}x$  B.  $y = x + 14$  C.  $y = x$   
D.  $y = 2x + 5$  E.  $y = 3x + 10$  F.  $y = 5x$

