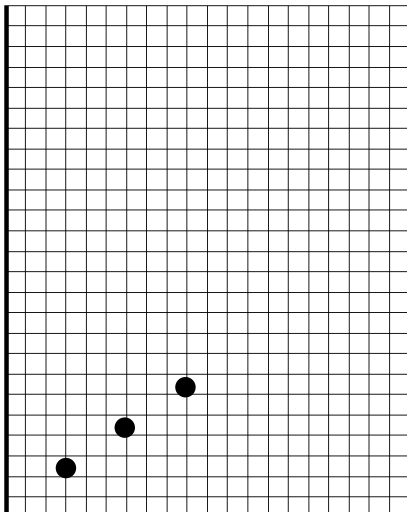


# Weekly 11 CC6 Ratios/Proportions Name \_\_\_\_\_

## MONDAY

- $7(2p + 9) = 8 + 5p - 12$  \_\_\_\_\_
- A 45 foot tall statue is made out of a horse that is actually 6 foot tall.  
Write the simplified scale factor. \_\_\_\_\_  
If the tail of the statue is 28 feet long, how long is the actual tail? \_\_\_\_\_
- A toy car runs at 3 feet per second. Choose ALL of the following points that would lie on a graph of the line.  
(5, 15) (15, 5) (9, 3) (3, 9) (0, 0) (3, 1) (1, 3) (8, 32) (2.75, 8.25)
- Use the graph below.  
Algebraic Equation \_\_\_\_\_  
Unit Rate/C of P/ \_\_\_\_\_
- Which table represents a proportional relationship?
- $\frac{2+4e}{9} = \frac{3e}{4}$



x	1	2	3
y	7	14	30

x	2	5	10
y	9	20	45

x	3	-5	6
y	12	-20	24

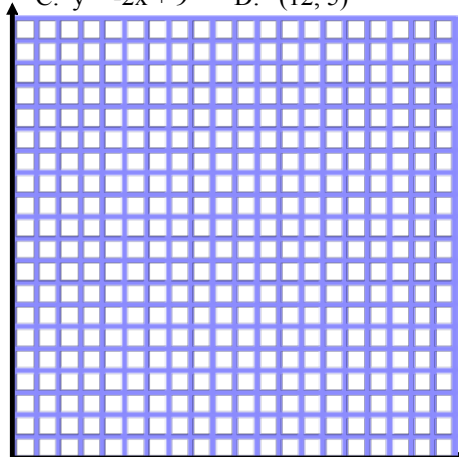
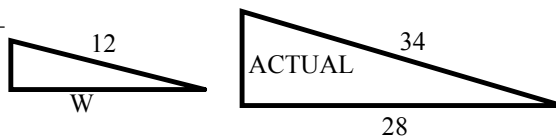
x	1	2	3
y	3	8	15

- Mr Dellenbach drinks 3 liters of Mt Dew every  $\frac{5}{8}$  of a day. What is his unit rate?
- A pound of beef costs \$3.75.  
Which is true?  
a. The ratio of total cost to pounds is 3.75.  
b. The ratio of pounds to total cost is 3.75.  
c. The number of pounds is 3.75 times greater than the total cost.  
d. The point (11.25, 3) would lie on the graph of the line.
- Graph  $y = 3x + 5$ .  
Is it proportional? YES or NO

## TUESDAY

- \_\_\_\_\_  $19 + \frac{h}{4} = -8$
- \_\_\_\_\_  $\frac{2\frac{3}{4}}{-3\frac{1}{2}}$
- \_\_\_\_\_  $\frac{7}{2w} = \frac{12}{w+5}$
- Scale Factor = \_\_\_\_\_ Length of side W = \_\_\_\_\_
- \_\_\_\_\_  $\frac{\frac{3}{8}}{9} = \frac{\frac{1}{4}}{?}$
- The nursing home went through 12 boxes of toilet paper in  $\frac{3}{8}$  of a month. What is the unit rate? \_\_\_\_\_  
How long will 75 boxes of toilet paper last? \_\_\_\_\_
- Fill in the table.  
Write the equation. \_\_\_\_\_  
What is the Constant of Proportionality? \_\_\_\_\_  

x	3	8	10
y	$\frac{6}{5}$	$\frac{16}{5}$	
- Which point represents a unit rate?  
(0, 0) (12, 1) (1, 12) (3, 9)
- 45 basketballs cost \$333.90.  
28 basketballs cost \$207.76.  
Is it proportional? YES or NO  
If it its...write the equation. \_\_\_\_\_
- Graph and label the following.  
A. (8, 3) B.  $y = 5x$   
C.  $y = -2x + 9$  D. (12, 5)



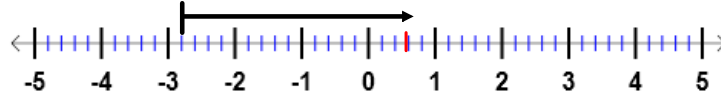
**WEDNESDAY**

1. \_\_\_\_\_  $\frac{3k+1}{5} = 9$

2. \_\_\_\_\_  $15 - (2g + 4) = 10$

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

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



4. Sam paid off  $\frac{3}{10}$  of his car loan in  $\frac{1}{6}$  of a year. How long will it take him to completely pay off the car? \_\_\_\_\_

5. It takes 942 tiles to cover 3 bathrooms floors. What is the unit rate? \_\_\_\_\_  
How many bathrooms floors could 14,040 tiles cover? \_\_\_\_\_

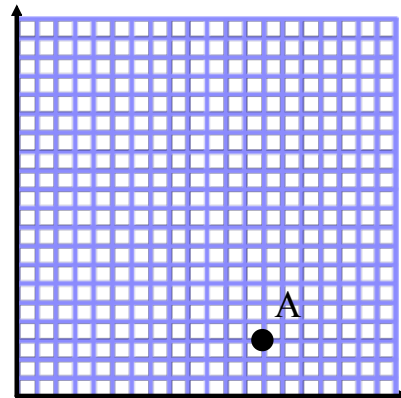
6. Ronald has made 14 out of the 30 sandwiches he needs to make for the trip. What percent is this? \_\_\_\_\_

7. \_\_\_\_\_ 38 is what percent of 55? 8. \_\_\_\_\_ 92% of what number is 650?

9. Mr. Dellenbach has consumed 75 two-liter bottles of Mt Dew.  
This is only 62.5% of the Mt Dew he bought on sale last month.  
How many two-liters did he buy last month? \_\_\_\_\_

10. USE THE GRAPH

- A. Where is point A? ( , )
- B. Graph  $y = 4x + 7$  Is it proportional? YES or NO
- C. Graph a proportional line that goes through the point (3, 6)  
Write the equation \_\_\_\_\_  
What is the Constant of Proportionality? \_\_\_\_\_  
Will the point (16, 8) be on the line? YES or NO



**THURSDAY**

1. \_\_\_\_\_  $8(b + 5) = 12 + 3b$  2. \_\_\_\_\_  $\frac{4w + 1}{5} = \frac{8 + w}{9}$  3. \_\_\_\_\_ Find the constant of proportionality of a line that goes through (12, 2).

4. \_\_\_\_\_ What number is 19% of 230? 5. \_\_\_\_\_ What would a \$74 item cost if it was on a 20% off sale?

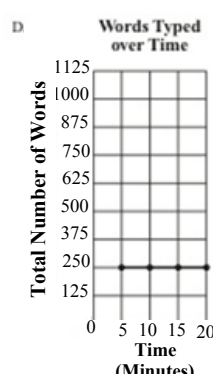
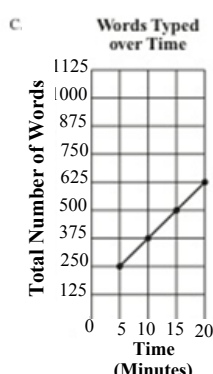
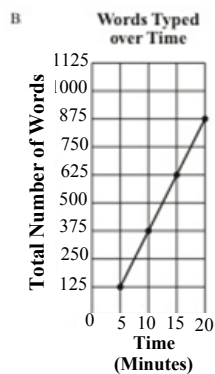
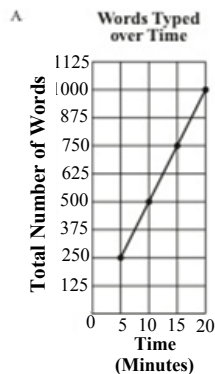
6. The fire department helps fill in the swimming pool. Their fire hose fills at a constant rate of  $12\frac{1}{2}$  gallons every  $\frac{1}{8}$  of a minute. What is the unit rate? \_\_\_\_\_ Write the equation. \_\_\_\_\_

7. The pod office printer uses 3 boxes of paper in  $2\frac{2}{5}$  months. If the rate stays constant how many months will 14 boxes last? \_\_\_\_\_

8. Six ounces of GOLD is worth \$7,176. Two ounces of GOLD is worth \$2,392. Which equation gives the total cost (y) of (x) ounces of GOLD.

- a.  $y = 7176x$  b.  $y = 2392x$  c.  $y = 1196x$  d.  $7176y = x$  e.  $2392y = x$  f.  $1196y = x$

9. Carol types an average of 50 words per minute. Which of the following graphs shows the relationship between the total number of words Carol types and the time she spends typing? Write the equation. \_\_\_\_\_



10. Fill in the table. What is the constant of proportionality? \_\_\_\_\_

x	4	7	13
y	18.4	32.2	