Weekly 9 CC6 Ratios/Proportions Name _____

MONDAY

1. $1\frac{5}{6} + (-7\frac{1}{5})$ = _____ 2. $5 + 2(3 - 4 \times 2)^2$ = _____ 3. Convert $9\frac{7}{8}$ to a percent _____

4. 7d - 5(6 + 2d) = 6d + 14 + 3d 5. 12 decreased by triple a number is equal to 15 more than that number

The lost and found bin contains 14 hoodies, 8 backpacks, 5 shoes, and 20 shirts. (For #6 - #8)

6. Write a simplified ratio for backpacks to hoodies in all three ways. _____ _____ _____

7. Write a simplified ratio for shirts to shoes in all three ways. _____ _____ _____

8. Write a simplified ratio for shirts to total items in the bin in all three ways. _____ _____ _____

9. It cost $56.40 to buy 12 florescent light bulbs. Find the unit price. _____

10. Greg drove 312 miles in 5 hours. Find his unit rate. _____

11. Jill was able to finish $6\frac{1}{8}$ Valentines Day boxes with 147 cm of lace. How much lace does it take to complete one Valentines Day box? _____

12. Which is a better buy? Find the unit rate of each to compare.

PRODUCT A	PRODUCT B
40 ounces for $17.12	24 ounces for $10.60
Unit Rate _____	Unit Rate _____

TUESDAY

1. $-4\frac{1}{3} \times (-1\frac{4}{5})$ = _____ 2. $6(-4) - 2(-3)^3$ = _____ 3. _____ $10 + \frac{c}{7} = \frac{2}{3}$

Simplify by combining like terms.

4._____ $9g - 7(3g + 4) + 3g^2$

Reverse the distributive property.

5. $18p - 42$ = _____

6. What is another term that means the same as unit rate? _____

7. There are 15 girls and 9 boys in my 7th hour class. What is the simplified ratio of boys to girls? _____
Girls to boys? _____ Girls to total? _____

8. 12. Which is a faster pace? Find the unit rate of each to compare.

CAR 1	CAR 2
529.2 miles in 9 hours	952.05 miles in 16.5 hours
Unit Rate _____	Unit Rate _____

9. $\frac{w}{10} = \frac{21}{30}$ 10. $\frac{35}{g} = \frac{86}{20}$ 11. $\frac{17.4}{5} = \frac{25}{m}$ 12. $\frac{30 + w}{4} = \frac{30}{6}$

13. What are the 7 things you should know about proportions?

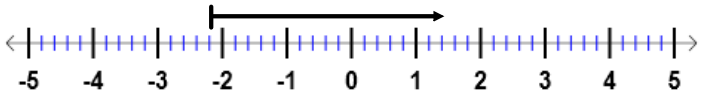
WEDNESDAY

1. 9 - 14 - (-6) + 25 = _____

2. $-6\frac{2}{5} + 8 =$ _____

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

3. _____



Solve for the variable

4. $70h = 9(6h + 4) + 10$

Clear the Fraction

5. $\frac{5}{8} + \frac{2}{5}m = 7$

6. $\frac{15}{8} = \frac{12}{k}$

7. $\frac{750}{g+2} = \frac{340}{9}$

8. It takes $\frac{3}{4}$ of a cup of sugar to make a dozen cookies. How much sugar is in each cookie? _____

Complete the table. Find the Constant of Proportionality.

9.

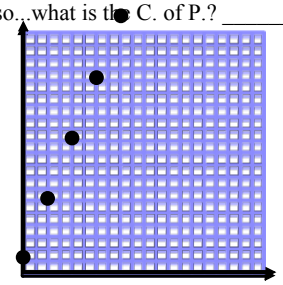
3	4	7	?
24	32	?	128

Is this relationship proportional?

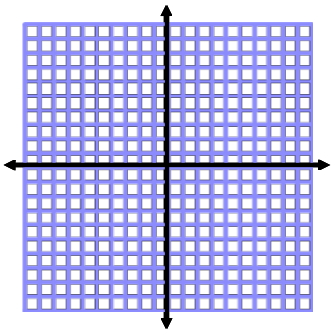
10.

5	9	12	23
16	28.8	38.4	73.6

11. Is it proportional?
If so...what is the C. of P.? _____



12. Graph $y = 3x$



THURSDAY

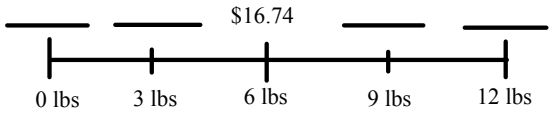
Solve for the variable. Answer as fractions if it does not come out even.

1. _____ $25 + 4g = 6g - 20$

2. _____ $8(3y + 7) = 6(9 + 4y)$

3. _____ $\frac{h+12}{6} \leq 20$

4. I purchased 6 pounds of Fuji Apples for $16.74.
Write this as a unit rate _____.
Complete the double line graph.



5. A piece of cable 8.5 cm long weighs 52 grams. What will a 10-cm length of the same cable weigh?

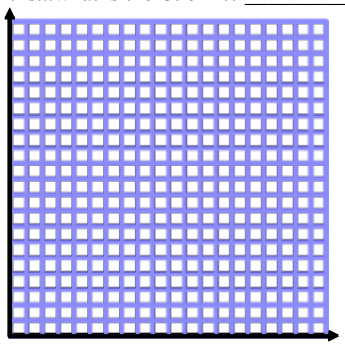
6. Joseph drives 125 miles in $2\frac{1}{2}$ hours. At the same rate, how far will he be able to travel in 6 hours?

7. n a shipment of 400 parts, 14 are found to be defective. How many defective parts should be expected in a shipment of 1000?

8. Carol spends 17 hours in a 2-week period practicing her culinary skills. How many hours does she practice in 5 weeks?

9. The graph of a proportional relationship will always go through _____.

10. Graph $y = 2x + 4$
Is it proportional? Yes No
If it is...what is the C. of P.? _____



11. Pineapples cost $4 each. Graph this relationship.
Is it proportional? Yes No
If it is...what is the C. of P.? _____