

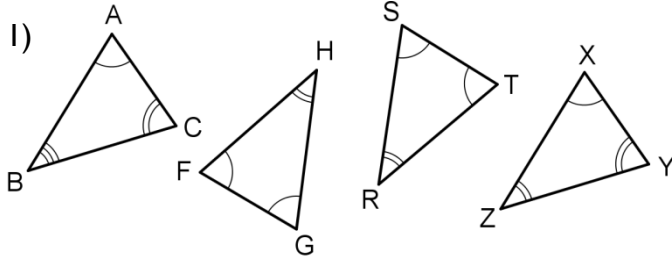
Name: \_\_\_\_\_ Period: \_\_\_\_\_

Week 19 Homework Packet – 7<sup>th</sup> Grade Math Honors

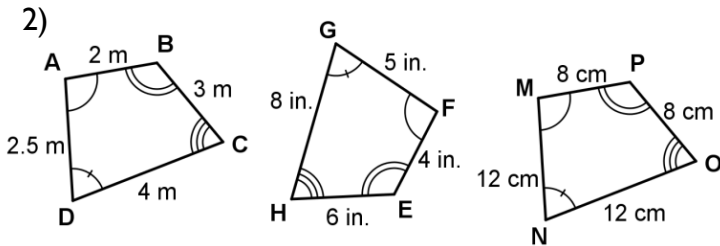
**ASSIGNMENT DUE WED/THU, JANUARY 4/5, 2017**

Unit 3, Chapter 5 - Ratio, Proportion, and Similar Figures

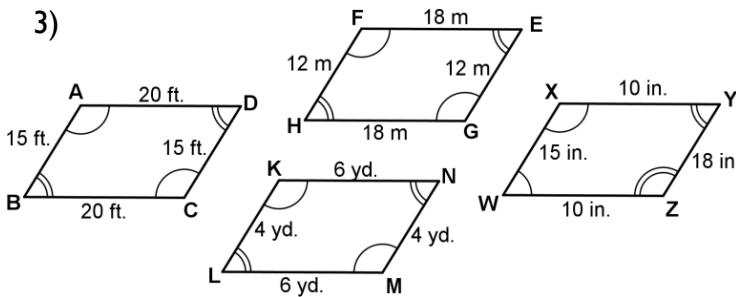
For each problem below, circle the similar pairs of shapes, then identify the corresponding angles. Remember that the drawings are not to scale.



Corresponding Angles: \_\_\_\_\_  $\cong$  \_\_\_\_\_  
 \_\_\_\_\_  $\cong$  \_\_\_\_\_



Corresponding Angles: \_\_\_\_\_  $\cong$  \_\_\_\_\_  
 \_\_\_\_\_  $\cong$  \_\_\_\_\_



Corresponding Angles: \_\_\_\_\_  $\cong$  \_\_\_\_\_  
 \_\_\_\_\_  $\cong$  \_\_\_\_\_

SCORE  
/ 4

WEEK SCORE  
/ 8

Stamp

Skills Review

Solve the following proportional equations. Simplify all answers.

4)  $\frac{12}{r} = \frac{4}{3}$

5)  $\frac{t}{10} = \frac{3}{4}$

6)  $\frac{3}{5} = \frac{x}{12}$

7)  $\frac{7}{8} = \frac{21}{w}$

8) If there are three feet in one yard and twelve inches in one foot, use dimensional analysis to determine how many inches are in six yards.

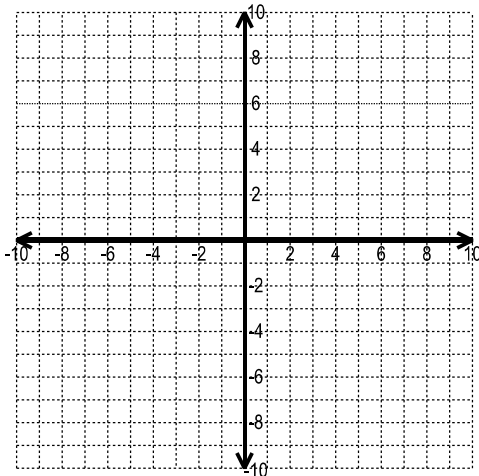
9) If there are 1609.3 meters in one mile, use dimensional analysis to determine how many meters per second a car traveling 45 miles per hour is going. Round your answer to one decimal place.

**ASSIGNMENT DUE FRIDAY, JANUARY 6, 2017**

Unit 3, Chapter 5 - Ratio, Proportion, and Similar Figures

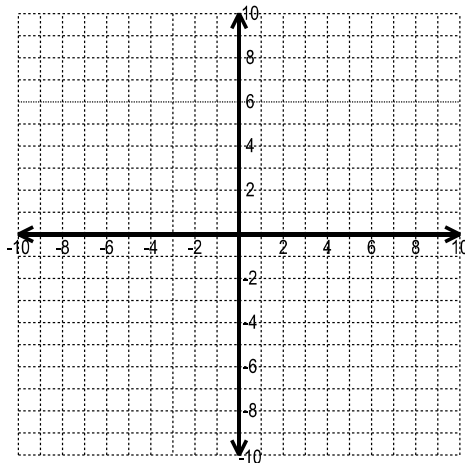
For problems 1–3, create a table of the proportional relationship described, then graph.

1) A bag of chips costs \$2.50. Use the x-axis to represent number of bags and the y-axis to represent cost.



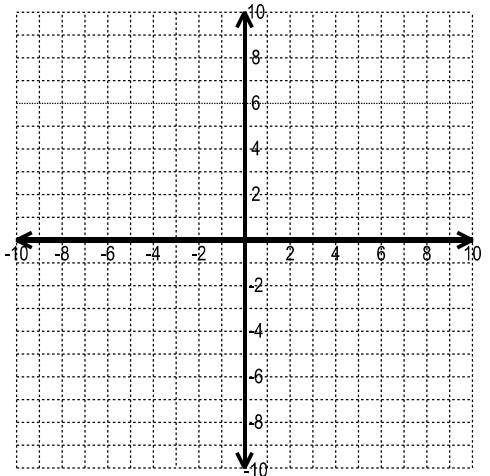
Bags of Chips						
Cost in Dollars						

2) Every time you increase your altitude by 1000 feet, the temperature drops by 3 degrees. Graph this relationship, using the x-axis to represent thousands of feet and the y-axis to represent temperature change in degrees



1000's of feet						
Temp. Change						

3) A rope weighs 2 ounces per foot of length. Use the x-axis to represent the length of a rope in feet and the y-axis to represent weight in ounces.



Length (ft.)						
Weight (oz.)						

4) A club has 14 boys and 21 girls. What is the ratio of girls to boys in the club?

5) Paul's cat weighs 12 pounds and Janae's cat weighs 18 pounds. What is the ratio of the weight of Paul's cat to the weight of Janae's cat?

6) A painter needs to mix red paint to yellow paint in a 2:5 ratio to get the color she needs. If she needs to make a total of 28 gallons of paint, how many gallons of yellow paint will she need?