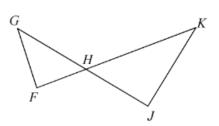
Date: ______ Bell: ____ Homework 2: Similar Figures

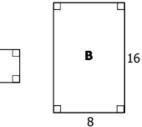
Directions: List all congruent angles and write a proportion that relates the corresponding sides.

1. Δ*FGH* ~ Δ*JKH*

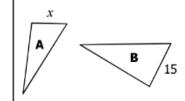


Angles	Sides

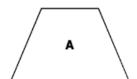
Directions: The pairs of polygons below are similar. Give the scale factor of figure A to figure B.



If the scale factor of figure A to figure B is 4:5, find the value of x.

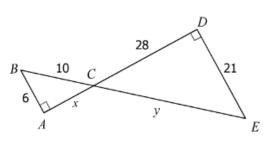


4.. If the scale factor of figure A to figure B is 7:2, find the perimeter of figure A.

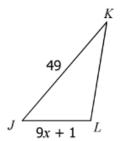


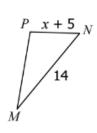


5. If $\triangle ABC \sim \triangle DEC$, find the value of x and y.

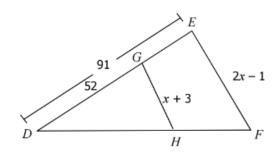


6. If $\Delta JKL \sim \Delta NMP$, find the value of x.









8. You want to enlarge a 3 in.-by-5 in. photo. The paper you will print on is 8.5 in.-by-14 in. What is the largest size the photo can be?

9. For art class, you need to make a scale drawing of the Parthenon using the scale 1 in. = 5 ft. The Parthenon is 228 ft long. How long should you make the building in your scale drawing?

10. Ella is reading a map with a scale of 1 in. = 20 mi. On the map, the distance Ella must drive is 4.25 in. How many miles is this?