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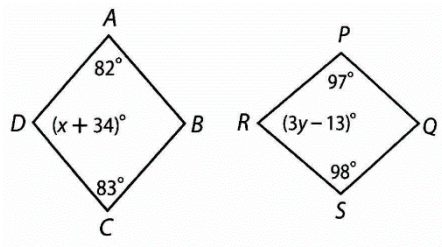
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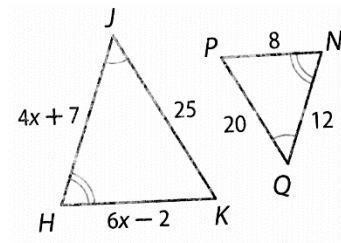
HW #8-7: Quiz Review

1. If two similar polygons have perimeters of 25 and 100, what is the ratio of their corresponding sides? What is the ratio of their areas?
2. There are 96 marbles in a bag. The ratio of green:red:blue marbles is 2:3:7. How many red marbles are in the bag?
3. Figure A has an area of 1050 ft^2 and one of its side lengths is 35 ft. Figure B has a corresponding side length of 28 ft. What is the area of Figure B? **USE THE AREAS OF SIMILAR POLYGONS THEOREM**
4. You are using a digital projector for a slide show. The photos are 13 in by 9.25 in on the computer screen. The scale factor of the computer image to the projected image is 1:4. What are the dimensions of the projected image?
5. $\triangle ABC$ has side lengths of 4, 8, and 9. The shortest side of a triangle similar to $\triangle ABC$ is 5 units long. What are the lengths of the other two sides in the similar triangle?

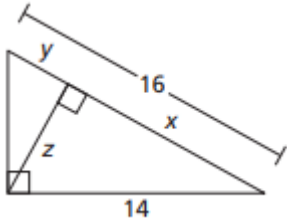
6. Find the values of x and y that make $ABCD \sim QSRP$.



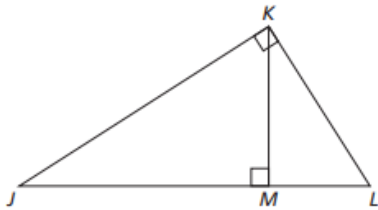
7. Find the value of x that makes the triangles similar.



8. USE GEOMETRIC MEANS to find the values of x , y , and z . Round to the nearest hundredth, if necessary.



9. Write a similarity statement for the three triangles.



10. Find the geometric mean of 12 and 15. Exact answer.

11. Write a two-column proof.

Given: $\overline{AC} \parallel \overline{GE}$ and $\overline{BG} \parallel \overline{CF}$

Prove: $\triangle ABH \sim \triangle EFD$

