7.1

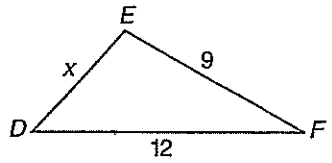
NAME _____ DATE _____

Practice

Exploring Similar Polygons

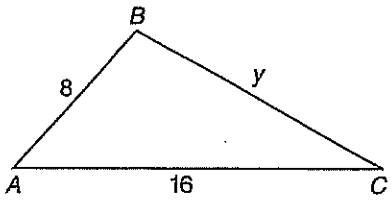
In the figure at the right, $\triangle ABC$ is similar to $\triangle DEF$.

1. Write three equal ratios to show corresponding sides are proportional.



2. Find the value of x.

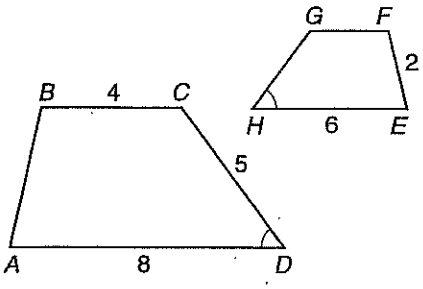
3. Find the value of y.



4. Give the scale factor of the triangle's smallest to largest.

In the figure at the right, quadrilateral ABCD is similar to quadrilateral EFGH.

5. Write four equal ratios to show corresponding sides are proportional.



6. Find AB.

7. Find HG.

8. Find FG.

9. The sum of the measures of $\angle A$ and $\angle C$ equals the sum of the measures of which two angles of quadrilateral $EFGH$?

10. Give the scale factor of the quadrilateral's smallest to largest.

Geometry

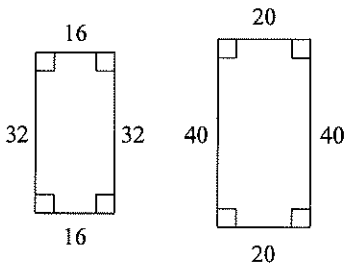
Name_____

7.1 Practice Part 2

Date_____

State if the polygons are similar.

1)



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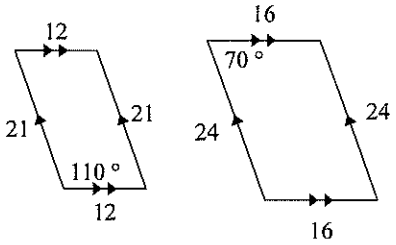

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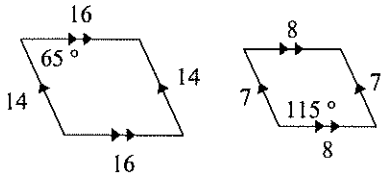

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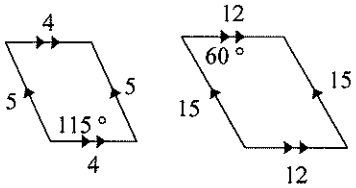
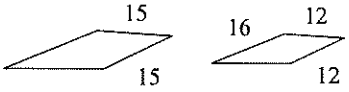


The polygons in each pair are similar. Find the scale factor of the smaller figure to the larger figure.

5)



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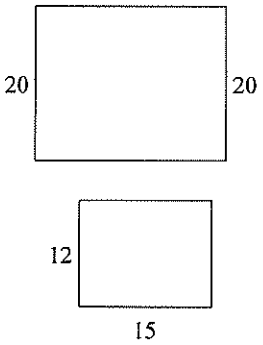

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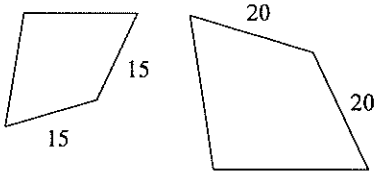

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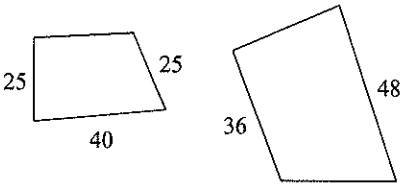
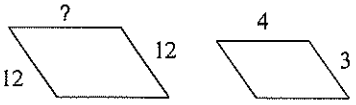
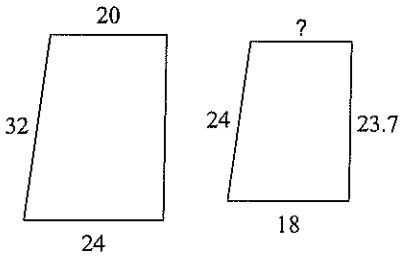


The polygons in each pair are similar. Find the missing side length.

9)



10)



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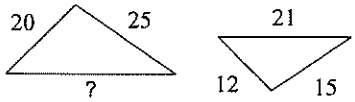

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