

Name _____

Unit 6 Study Guide: Similarity
SOL G.5

1. Simplify the ratio.

a. 81 cm: 3 cm

b. $\frac{9\text{ ft}}{15\text{ yd}}$

c. $\frac{6\text{ ft}}{48\text{ in}}$

2. The measures of the angles in $\triangle ABC$ are in the extended ratio of 4:5:9. Find the measures of the angles.

3. The Perimeter of a rectangle is 154 feet. The ratio of the length to the width is 10:1. Find the length, the width and the Area of the rectangle.

4. Solve the proportion:

a. $\frac{j+1}{5} = \frac{4}{10}$

b. $\frac{3}{2p+5} = \frac{1}{9p}$

c. $\frac{2-x}{3} = \frac{2x+1}{5}$

5. Find the geometric mean of the two numbers.

a. 3 and 27

b. 40 and 5

c. 6 and 15

6. The ratio of the measures of two supplementary angles is 7:2. Find the measures of the angles.

7. In the diagram below $\frac{RU}{US} = \frac{RV}{VT}$. Find x .



b.



8. Highway A highway on a map is 9 inches long. The actual highway is 36 miles long. What is the scale of the map?

9. **Blueprint** An architect's blueprint of a floor plan for a new condominium has a scale of 1.5 centimeters : 1 foot. With a ruler you measure the width of the kitchen on the blueprint to be about 22.5 centimeters. What is the actual width of the kitchen?

10. Determine whether the polygons are similar. If they are, write a similarity statement and find the scale factor of $DEFG$ to $JKLM$.



Practice Review Test Geometry Unit 6

Lei Huang

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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, Elementary Mathematics Herbert F. Spitzer, 1967 *Elementary Mathematics* Herbert Frederick Spitzer, 1967

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