

Unit 7 – G.SRT.4-5 Similarity Test Review

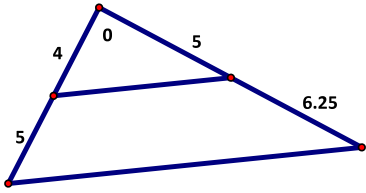
For each multiple choice question, please circle your answer.

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

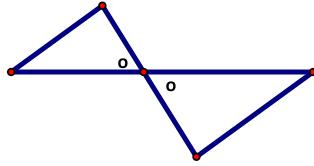
Date: \_\_\_\_\_ Period: \_\_\_\_\_

1. Are the following pairs of triangles similar? If they are, then name their similarity criteria. (SSS~, SAS~, AA~)

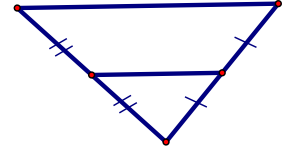
a) Yes / No \_\_\_\_\_



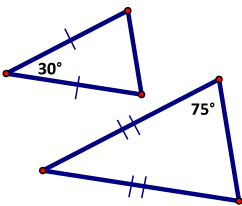
b) Yes / No \_\_\_\_\_



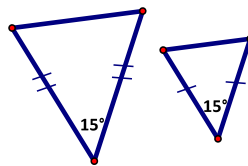
c) Yes / No \_\_\_\_\_



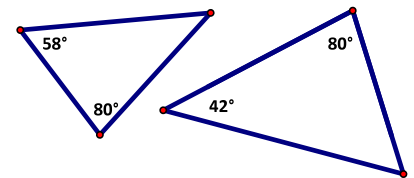
d) Yes / No \_\_\_\_\_



e) Yes / No \_\_\_\_\_



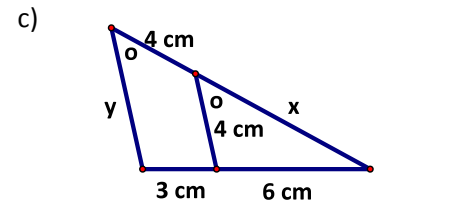
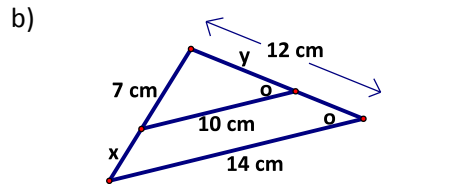
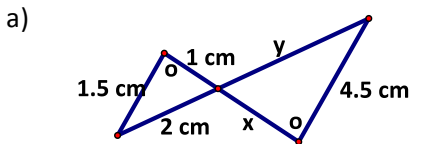
f) Yes / No \_\_\_\_\_



2. Given that  $\triangle NHG \sim \triangle JKL$ . Complete the following.

- a)  $\angle G \cong \angle$  \_\_\_\_\_      b)  $\frac{KL}{HG} = \frac{JK}{\square}$  \_\_\_\_\_      c)  $\angle J \cong \angle$  \_\_\_\_\_      d)  $\frac{\square}{NG} = \frac{KL}{HG}$  \_\_\_\_\_

3. Solve for the missing information, given that the two triangles in each question are SIMILAR. (2 decimals)



x = \_\_\_\_\_ y = \_\_\_\_\_

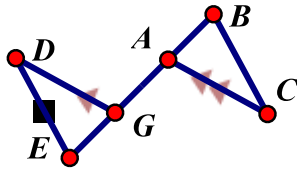
x = \_\_\_\_\_ y = \_\_\_\_\_

x = \_\_\_\_\_ y = \_\_\_\_\_

4. The perimeter of a rectangle is 504 cm. If the length and the width are in a ratio of 7:2. Find the length and width.

5. a) GIVEN:

$$\overline{DE} \parallel \overline{CB} \text{ \& } \overline{DG} \parallel \overline{CA}$$

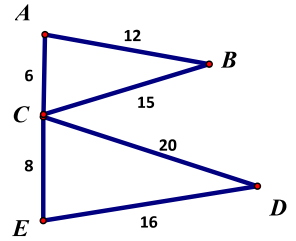


PROVE:

$$\triangle EDG \sim \triangle BCA$$

STATEMENT	REASON

b) GIVEN: Diagram as Marked



PROVE:

$$\angle B \cong \angle D$$

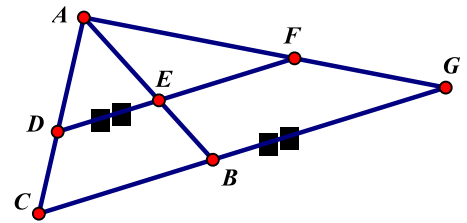
STATEMENT	REASON

6. Complete the proportions.

a)  $\frac{AD}{AE} = \frac{DC}{\square}$

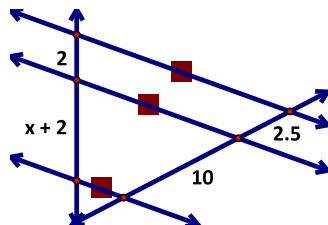
b)  $\frac{AC}{AD} = \frac{AG}{\square}$

c)  $\frac{EB}{FG} = \frac{\square}{AG}$

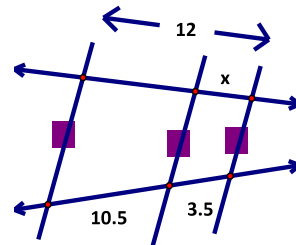


7. Find the values for the missing variables.

a)

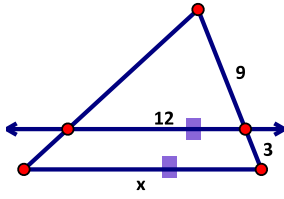


b)

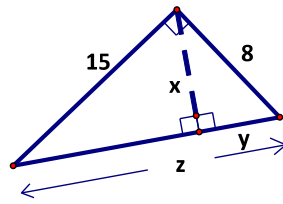


9. Find the missing values. (Leave your answers in simplified, radical form if necessary.)

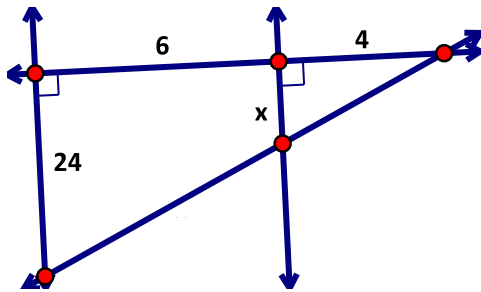
a)



b)



c)



d)

