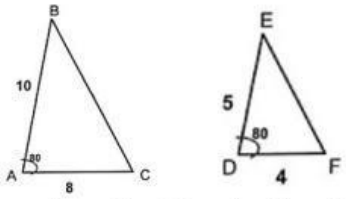
ASSESSMENT

Multiple Choice: Read and analyze the following problems and choose the letter of the correct answer.

1. _____ are triangles with congruent corresponding angles and proportional corresponding sides.
   a. Regular triangles b. Acute Triangles
   c. Congruent triangles d. Similar Triangles
2. Which of the following triangles will always be similar?
   a. Two acute triangle b. Two equiangular triangle
   c. two obtuse triangle d. none
3. What triangle similarity is this, "Two triangles are similar if the corresponding sides of two triangles are in proportion".
   a. SAS similarity theorem b. AA similarity theorem
   c. SSS similarity theorem d. No similarity

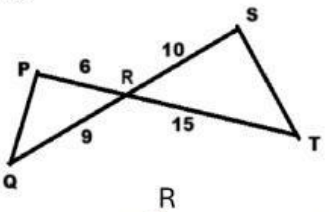
4. Using the figure at the right, $\frac{AB}{DE} = \frac{AC}{DF}; \angle A \cong \angle D$, then what similarity theorem will show that $\Delta ABC \sim \Delta DEF?$
   a. SAS similarity b. AA similarity
   c. SSS similarity d. No similarity



5. If the two angles of one triangle are congruent to the two angles of another triangle, then the two triangles are similar by _____.
   a. SAS similarity theorem b. AA similarity theorem
   c. SSS similarity theorem d. No similarity

For items 6-8. Refer to the figure on the right.

6. Given that $\Delta PQR \sim \Delta STR$, which of the following is the correct proportion?
   a. $\frac{PR}{RS} = \frac{RQ}{RT}$ b. $\frac{PQ}{RS} = \frac{RQ}{ST}$ c. $\frac{PR}{RQ} = \frac{RT}{RS}$ d. $\frac{PR}{RT} = \frac{RQ}{RS}$
7. Using the figure at the right, do $\Delta PQR \; and \; \Delta STR$ be similar?
   a. similar by SAS b. similar by SSS
   c. similar by AA d. Not similar
8. If $\Delta PQR \sim \Delta STR$, then which of the following could NOT be TRUE?
   a. $\angle Q \cong \angle S$ b. $\angle R \cong \angle R$ c. $\angle P \cong \angle T$ d. $\angle Q \cong \angle R$



For items 9-10. Refer to triangle ABC at the right.
9. Which of the following could be the length of altitude RW or a?
   a. $7\sqrt{4}$ b. $2\sqrt{7}$ c. $7\sqrt{2}$ d. $4\sqrt{7}$

10. Which of the following could be the length of OR?
   a. $11\sqrt{4}$ b. $2\sqrt{11}$ c. $11\sqrt{2}$ d. $4\sqrt{11}$