

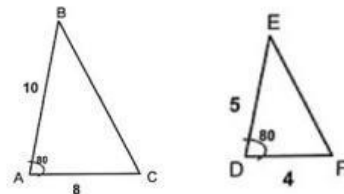


ASSESSMENT

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

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

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



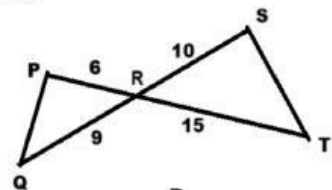
- If the two angles of one triangle are congruent to the two angles of another triangle, then the two triangles are similar by _____.
 - SAS similarity theorem
 - AA similarity theorem
 - SSS similarity theorem
 - No similarity

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

- Given that $\triangle PQR \sim \triangle STR$, which of the following is the correct proportion?
 - $\frac{PR}{RS} = \frac{RQ}{RT}$
 - $\frac{PQ}{RS} = \frac{RQ}{ST}$
 - $\frac{PR}{RQ} = \frac{RT}{RS}$
 - $\frac{PR}{RT} = \frac{RQ}{RS}$

- Using the figure at the right, do $\triangle PQR$ and $\triangle STR$ be similar?
 - similar by SAS
 - similar by SSS
 - similar by AA
 - Not similar

- If $\triangle PQR \sim \triangle STR$, then which of the following could NOT be TRUE?
 - $\angle Q \cong \angle S$
 - $\angle R \cong \angle R$
 - $\angle P \cong \angle T$
 - $\angle Q \cong \angle R$



For items 9-10. Refer to triangle ABC at the right.

- Which of the following could be the length of altitude RW or a?
 - $7\sqrt{4}$
 - $2\sqrt{7}$
 - $7\sqrt{2}$
 - $4\sqrt{7}$
- Which of the following could be the length of OR?
 - $11\sqrt{4}$
 - $2\sqrt{11}$
 - $11\sqrt{2}$
 - $4\sqrt{11}$

