

Triangle Similarity Shortcuts

Sometimes, just 2 or 3 measures on each triangle can be sufficient to determine if 2 triangles are similar.

Name: _____

Mark the sides of the triangles relevant to each. Then, complete the statements.

SSS
If a pair of triangles has 3 congruent sides, then the triangles are similar.

AA
If a pair of triangles has 2 congruent angles, then the triangles are similar.

SAS
If a pair of triangles has 2 congruent sides and 1 congruent angle, then the triangles are similar.

Try It!
AA
 $\triangle MLN \sim \triangle ABC$

For a and b, determine whether the triangles are similar. If they are, write a similarity statement and state which shortcut you used.

1
Find x and explain in sentences.

SAS
 $\triangle WXY \sim \triangle ZUV$

2
If a pair of triangles has 3 pairs of proportional sides, then the triangles are similar.

$\frac{10}{8} = \frac{6}{x}$
 $10x = 48$
 $x = 4.8$

Nov 8-12:34 PM