

Math 9

Name: _____

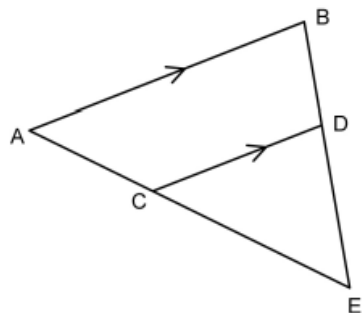
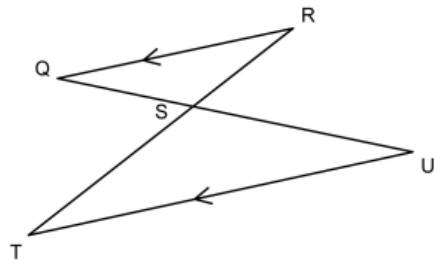
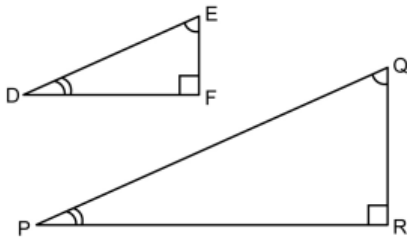
7.3 – Similar Triangles

Date: _____

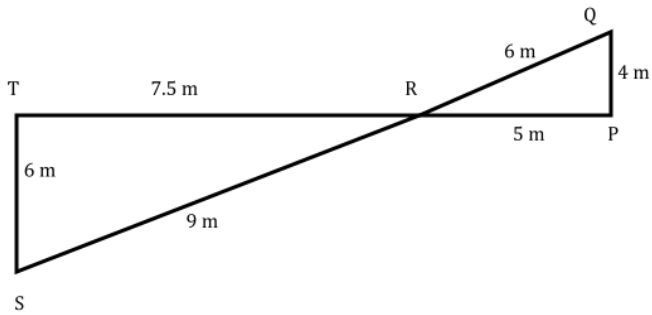
Two **POLYGONS** are **SIMILAR** if: _____ **AND**

Two **TRIANGLES** are **SIMILAR** if: _____ **OR**

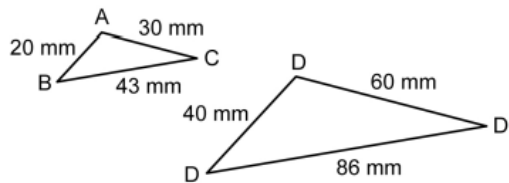
Ex. 1: Identify the similar triangle pairs in the following diagrams and pair up the corresponding sides.



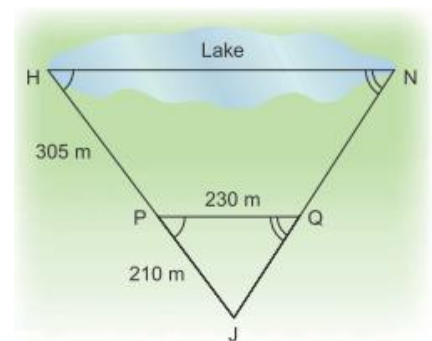
Ex. 2: Is $\triangle TRS \sim \triangle PRQ$? Justify your answer



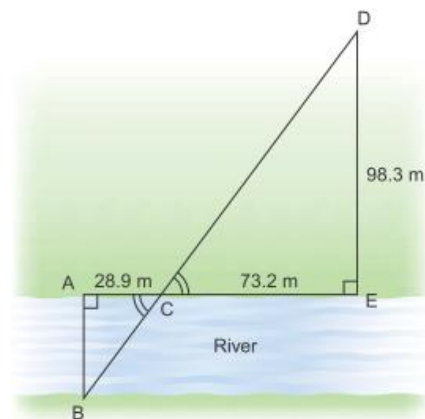
Ex. 3: Name the similar triangles given below.



Ex. 4: Determine the distance across the lake



Ex. 5: Determine the distance across the river.



Ex. 6: At a certain time of day, a person who is 1.8m tall has a shadow 1.3m long. At the same time, the shadow of a Totem Pole is 6m long. The sun's rays intersect the ground at equal angles. How tall is the Totem Pole, to the nearest tenth of a metre?

