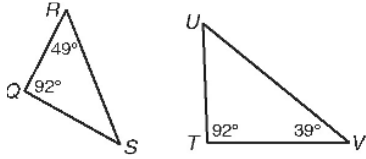


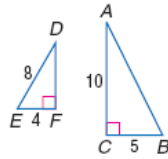
**Classwork** 2.7 Similar Triangles

Explain why the triangles are similar, and write a similarity statement.

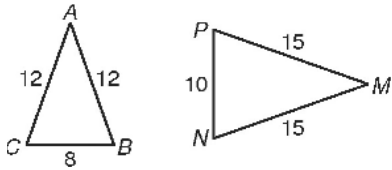
1.  $\triangle RQS \sim$  \_\_\_\_\_ by \_\_\_\_\_



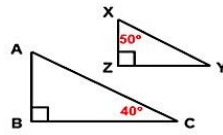
2.  $\triangle DEF \sim$  \_\_\_\_\_ by \_\_\_\_\_



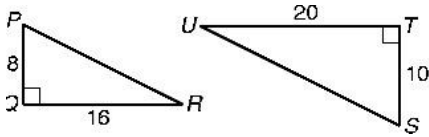
3.  $\triangle ABC \sim$  \_\_\_\_\_ by \_\_\_\_\_



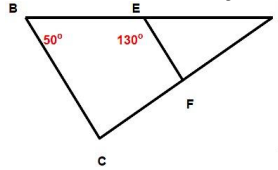
4.  $\triangle ABC \sim$  \_\_\_\_\_ by \_\_\_\_\_



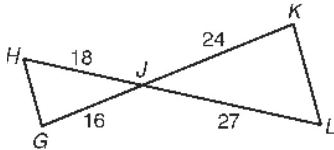
5.  $\triangle QPR \sim$  \_\_\_\_\_ by \_\_\_\_\_



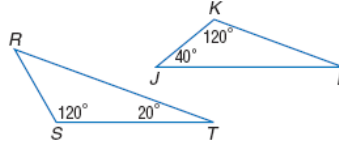
6.  $\triangle AEF \sim$  \_\_\_\_\_ by \_\_\_\_\_



7.  $\triangle HGJ \sim$  \_\_\_\_\_ by \_\_\_\_\_

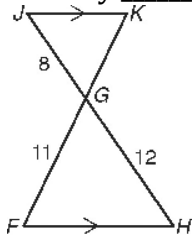


8.  $\triangle RST \sim$  \_\_\_\_\_ by \_\_\_\_\_

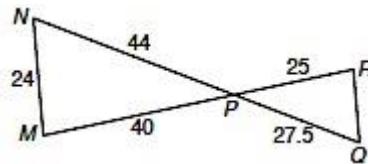


Explain why the triangles are similar, and find each length.

9. Similar by \_\_\_\_\_ and  $GK =$  \_\_\_\_\_

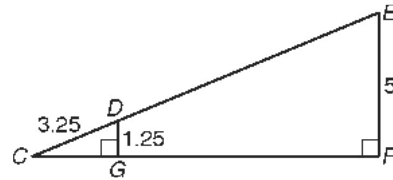
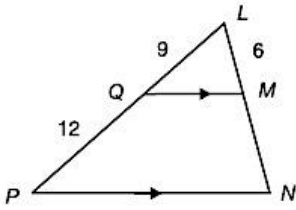


10. Similar by \_\_\_\_\_ and  $RQ =$  \_\_\_\_\_



11. Similar by \_\_\_\_\_ and  $MN =$  \_\_\_\_\_

12. Similar by \_\_\_\_\_ and  $DE =$  \_\_\_\_\_

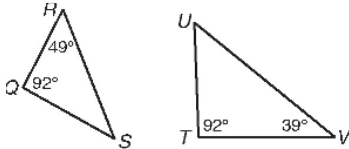


**Classwork** 2.7 Similar Triangles

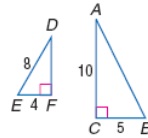
**Solutions**

Explain why the triangles are similar, and write a similarity statement.

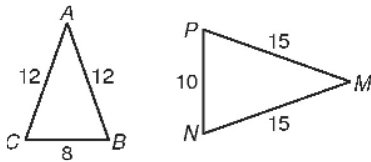
1)  $\triangle RQS \sim \triangle UTV$  by AA



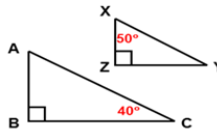
2)  $\triangle DEF \sim \triangle ABC$  by SAS



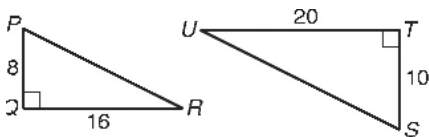
3)  $\triangle ABC \sim \triangle MCP$  by SSS



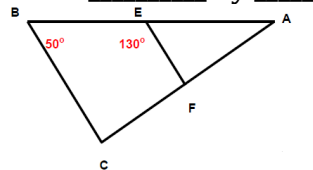
4)  $\triangle ABC \sim \triangle XZY$  by AA



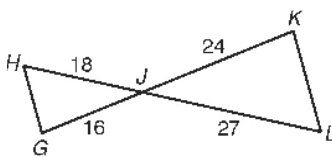
5)  $\triangle QPR \sim \triangle TSU$  by SAS



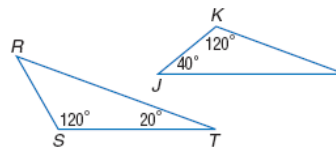
6)  $\triangle AEF \sim \triangle ABC$  by AA



7)  $\triangle HGJ \sim \triangle LKI$  by SAS

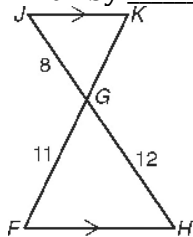


8)  $\triangle RST \sim \triangle IKL$  by AA

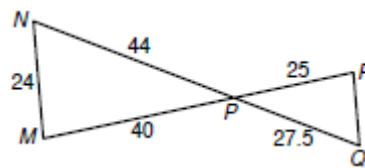


Explain why the triangles are similar, and find each length.

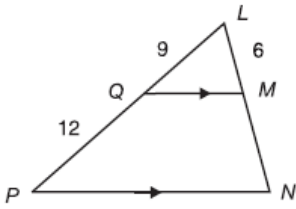
9) Similar by AA and  $GK = \underline{7.33}$



10) Similar by SAS and  $RQ = \underline{15}$



11) Similar by \_\_\_\_\_ and  $MN = \underline{\hspace{1cm}}$



12) Similar by \_\_\_\_\_ and  $DE = \underline{\hspace{1cm}}$

