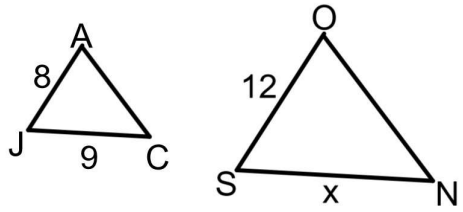
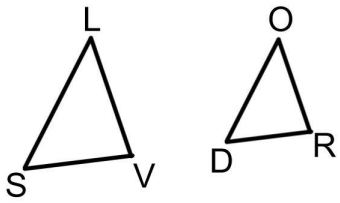
Name _____ Date _____
Mr. Schlansky Geometry

Finding Missing Sides of Similar Triangles

1. In the diagram, ΔJAC is similar to ΔSON. Find the measure of *SN*.

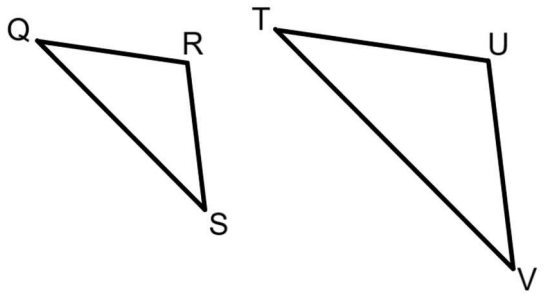


2. In the diagram, ΔSLV is similar to ΔDOR. If *SV=24*, *DR=16*, *LV=21,* find *OR*.

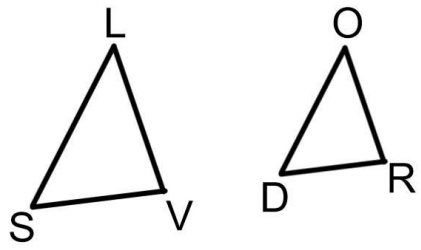


3. Triangle *HON* is similar to triangle *DUR*. If *HO=12, DU=24, UR=18*, find *ON*.

4. In the diagram below, triangle QRS is similar to triangle TUV. If $QR = 8$, $RS = 10$, $QS = 15$, and $TU = 12$, find UV.



5. In the diagram, ΔSLV is similar to ΔDOR. If $SV=8$, $SL=11$, $LV=10$, $DR = 5$, find OD.



6. In the diagram, ΔABC is similar to $\Delta A'B'C'$, $AB = 24$, $BC = 30$, and $CA = 40$. If the shortest side of $\Delta A'B'C'$ is 6, find the length of the longest side of $\Delta A'B'C'$.