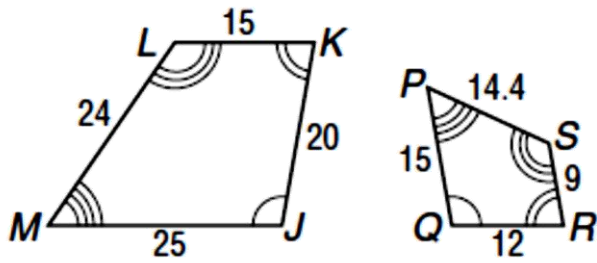
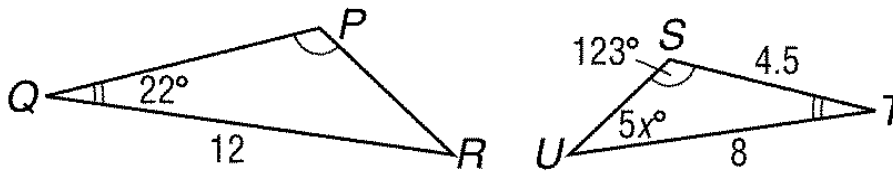


Similarity Review 2020 Remote Learning

1. Determine if the figures below are similar. Explain why or why not.

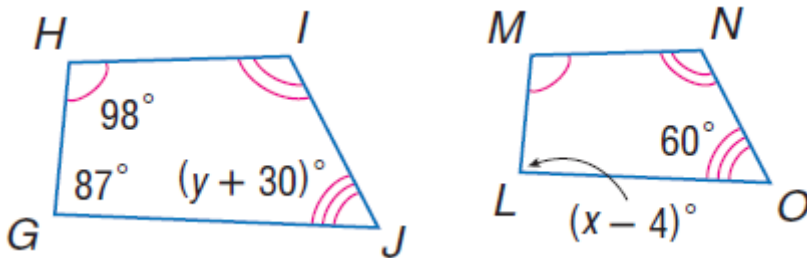


2. Given $\Delta STU \sim \Delta PQR$, find x .



$x =$ _____

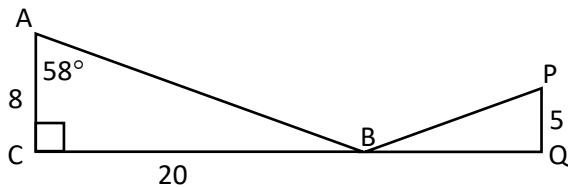
3. Given Quadrilateral HIJG \sim Quadrilateral MNOL, find x and y .



$x =$ _____

$y =$ _____

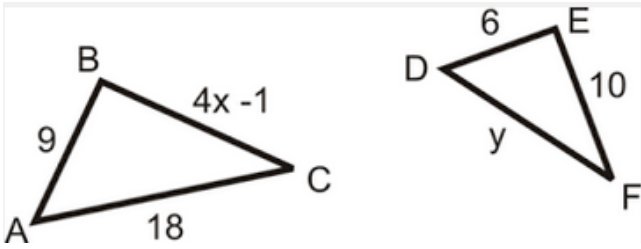
4. $\Delta ABC \sim \Delta PBQ$. Find $\angle PBQ$ and BQ . Round to the nearest tenth.



$\angle PBQ =$ _____

$BQ =$ _____

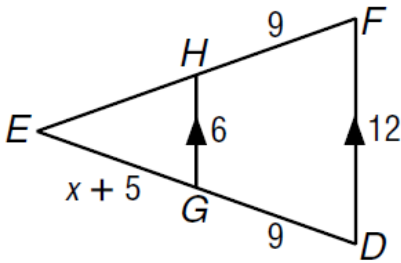
5. If $\triangle ABC \sim \triangle DEF$, find the perimeter of $\triangle ABC$. What is the ratio of ABC to DEF?



Perimeter of ABC = _____

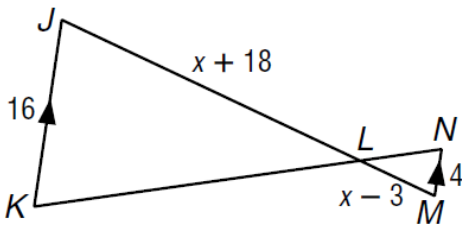
6. Identify the Similar triangles, how you know they are similar, find the variable(s) and the measures of the indicated sides.

\overline{EH} and \overline{EF}



7. Identify the Similar triangles, how you know they are similar, find the variable(s) and the measures of the indicated sides.

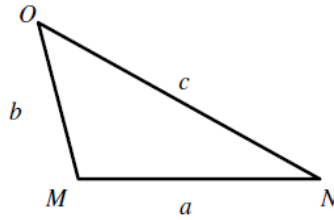
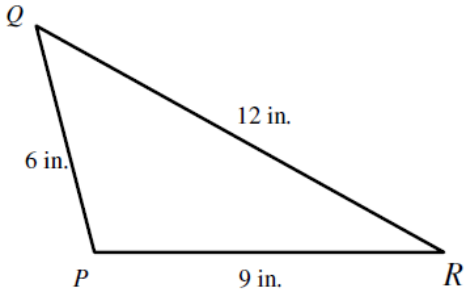
\overline{JL} and \overline{LM}



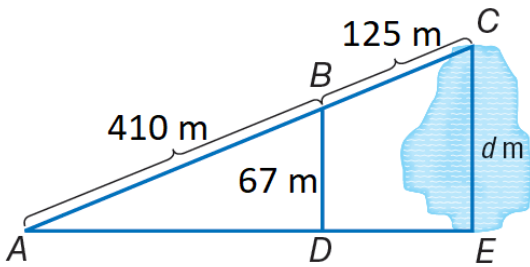
8. A flagpole 5 meters tall casts a 3-meter shadow. At the same time of day, a nearby building casts a 32-meter shadow. How tall is the building?

9. $\triangle QPR \sim \triangle OMN$

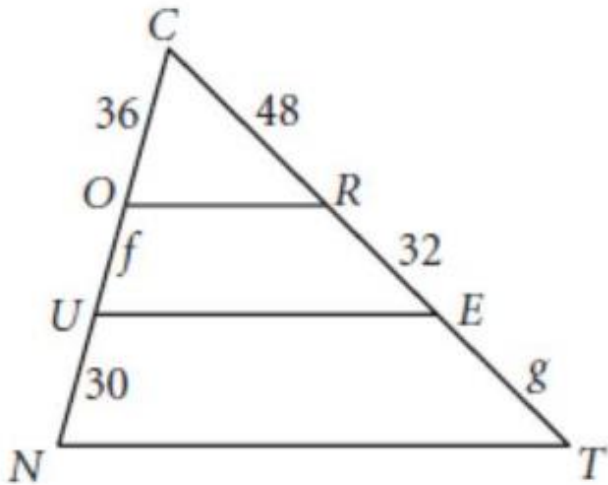
Find a , b , and c if the perimeter of $\triangle OMN$ is 18 inches. All measurements are in inches.



10. In the figure, triangle DBA is similar to triangle ECA . Ramon wants to know the distance across the lake. Find d and round to the nearest hundredth if needed.

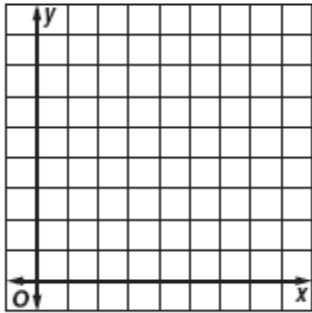


11. $OR \parallel UE \parallel NT$. Find f and g .

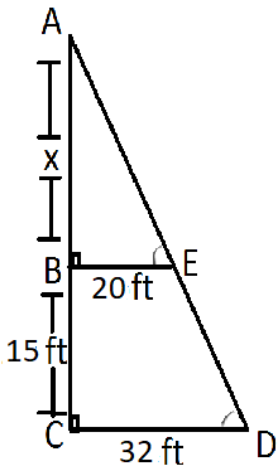


12. Find the image of the polygon, given the vertices, after a dilation centered at the origin with a scale factor of 2, 3, $\frac{1}{2}$, and $\frac{1}{3}$.

$J(2, 4), K(4, 4), P(3, 2)$



13. Find x .



14. Given $\triangle ABC \sim \triangle APQ$. If the perimeter of ABC is 51 in and the perimeter of triangle APQ is 34 in. Find all variables.

