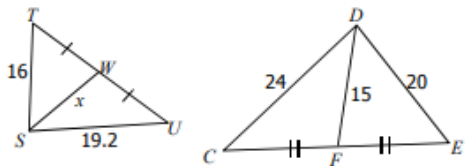


# parts of similar triangles

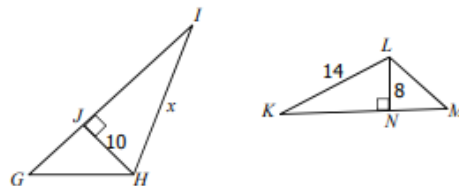
<p>If two triangles are similar, then the following corresponding parts are also proportional to the corresponding sides:</p>		
_____		<input type="text"/>
_____		<input type="text"/>
_____		<input type="text"/>

**Practical** Given the similar triangles, solve for  $x$ .

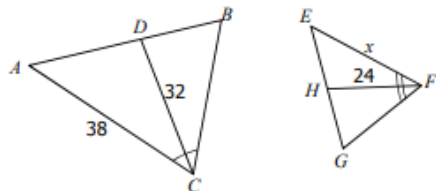
1.  $\triangle STU \sim \triangle DEC$



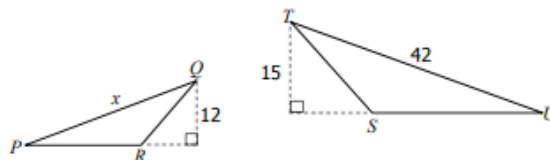
2.  $\triangle GHI \sim \triangle MLK$



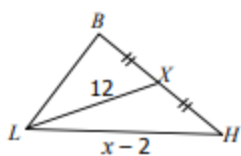
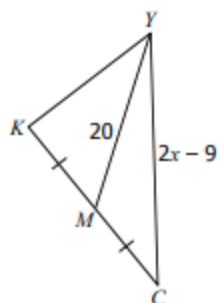
3.  $\triangle ABC \sim \triangle EGF$



4.  $\triangle PQR \sim \triangle UTS$

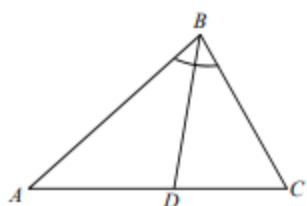


5.  $\triangle KYC \sim \triangle BLH$



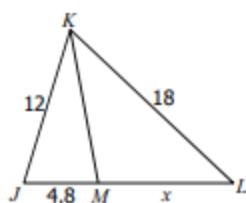
## Triangle Angle Bisector Theorem

An angle bisector in a triangle separates the opposite sides into two segments that are proportional to the lengths of the other two sides.

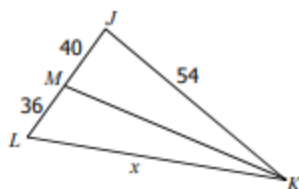


**Practical** If  $\overline{KM}$  represents an angle bisector, solve for  $x$ .

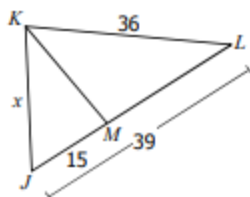
6.



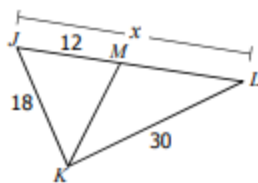
7.



8.



9.



10.

