

Fill in the perimeter and area of each figure.

A Perim =
 Area =

B Perim =
 Area =

C Perim =
 Area =

D Perim =
 Area =

E Perim =
 Area =

F Perim =
 Area =

G Perim =
 Area =

H Perim =
 Area =

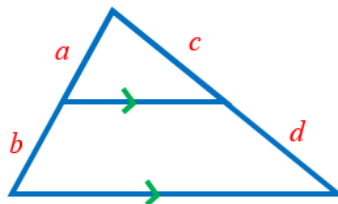
I Perim =
 Area =

Shapes	Ratio of Sides	Ratio of Perimeters	Ratio of Areas	Description in Words
$\frac{B}{A}$				
$\frac{C}{A}$				
$\frac{D}{A}$				
$\frac{C}{B}$				
$\frac{F}{E}$				
$\frac{F}{G}$				
$\frac{H}{I}$				

Theorems

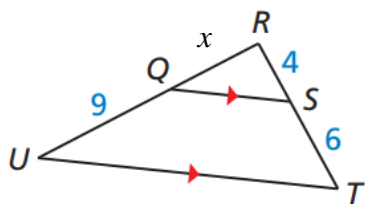
Theorem 8.6 Triangle Proportionality Theorem

If a line parallel to one side of a triangle intersects the other two sides, then it divides the two sides proportionally.



Example:

- 1) Find x by drawing the overlapping triangles. Do not use the short cut shown above.



- 2) Find x using the short cut shown above.

