## Segments Divided Proportionally Theorems

## **Theorem**

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

Given:  $\triangle ABC$ ,  $\overline{YZ} \parallel \overline{AB}$ 

Prove:  $\frac{AY}{TC} = \frac{BZ}{ZC}$ 

