## 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: $\Delta \mathrm{ABC}, \overline{Y Z} \| \overline{A B}$
Prove: $\frac{A Y}{T C}=\frac{B Z}{Z C}$


