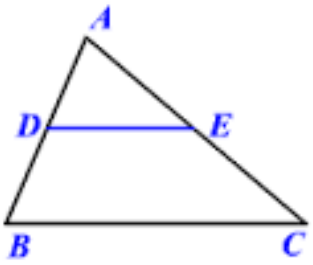
Unit 4 - Geometry
Midsegments Guided Notes

Name: _____

The Midsegment of a Triangle is a _____ that connects the

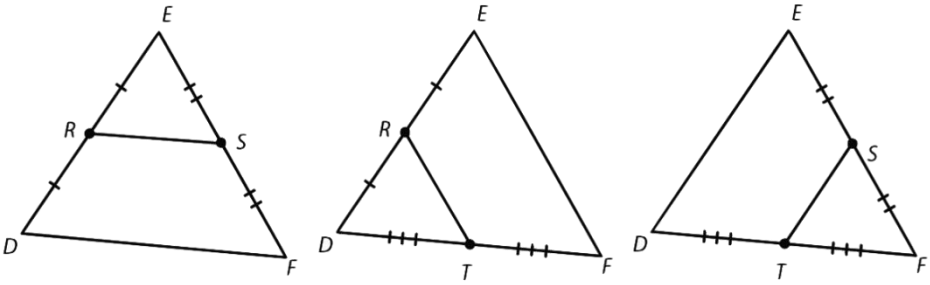
_____ of the _____ of the triangle.



D and E are _____.

$\overline{DE}$ is a _____.

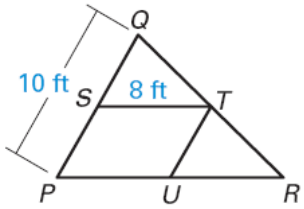
Every triangle has _____ midsegments!



Midsegment Theorem

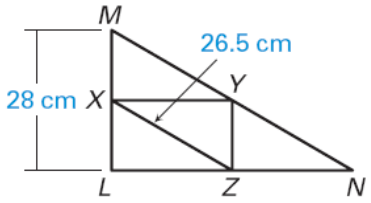
The segment connecting the midpoints of two sides of a triangle is _____ to the _____ side and is _____ as long as that side.

Example 1: In the diagram, $\overline{ST}$ and $\overline{TU}$ are midsegments of the triangle ΔPQR. Find $\overline{PR}$ and $\overline{TU}$.

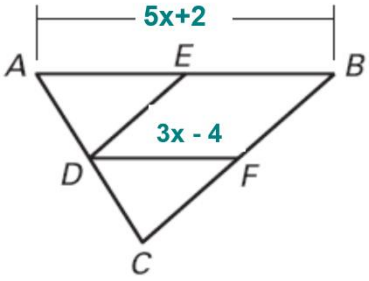


Name: _____

Example 2: In the diagram, $\overline{XY}$ and $\overline{ZY}$ are midsegments of the triangle ΔLMN. Find $\overline{MN}$ and $\overline{ZY}$.



Example 3: In the diagram, $\overline{ED}$ and $\overline{DF}$ are midsegments of the triangle ΔABC. Find *x*, $\overline{DF}$, and $\overline{AB}$.



Identifying Parallel Segments

What are the three pairs of parallel segments in triangle ΔDEF?