H.Geometry – Chapter 5– Definition Sheet

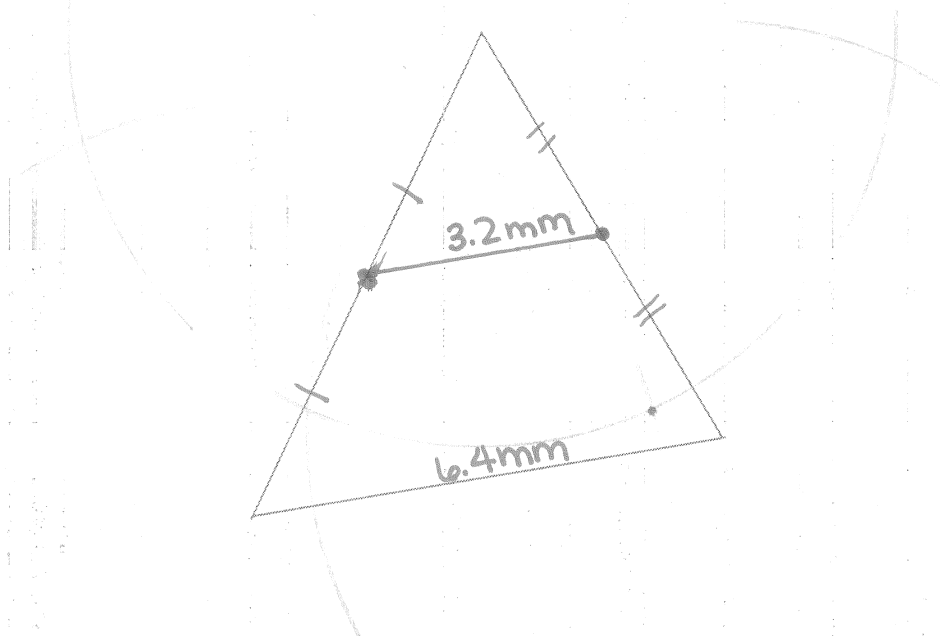| Section 5.4	
Definition of a Midsegment	-The segment connecting the _midpoints_ of the two sides of the triangle.
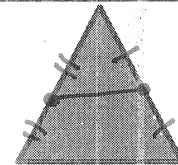
PROVING THE **TRIANGLE MIDSEGMENT THM.**

- Construct the midpoints of two sides
  And connect them
- Measure the length of the midsegment
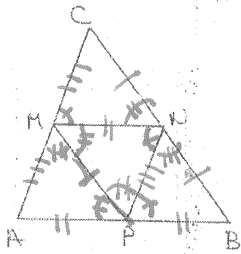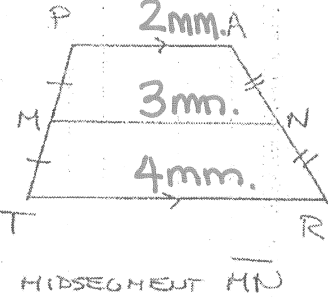 and compare it to the length of the base

3.2mm

6.4mm

Triangle Midsegment Theorem	The Midsegment of a triangle is: A.) _parallel_ to the third side B.) _½ the length of_ of the third side

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Three Midsegment Theorem	The three midsegments of a triangle divide the triangle into <u>4 congruent</u> triangles.	
Midsegment of a trapezoid	The segment connecting the midpoints of the two <u>legs</u> of the trapezoid	
Trapezoid Midsegment Theorem	The midsegment of a trapezoid is: A.) <u>parallel</u> to the bases B.) Has length equal to the <u>average</u> of the lengths of the bases.	