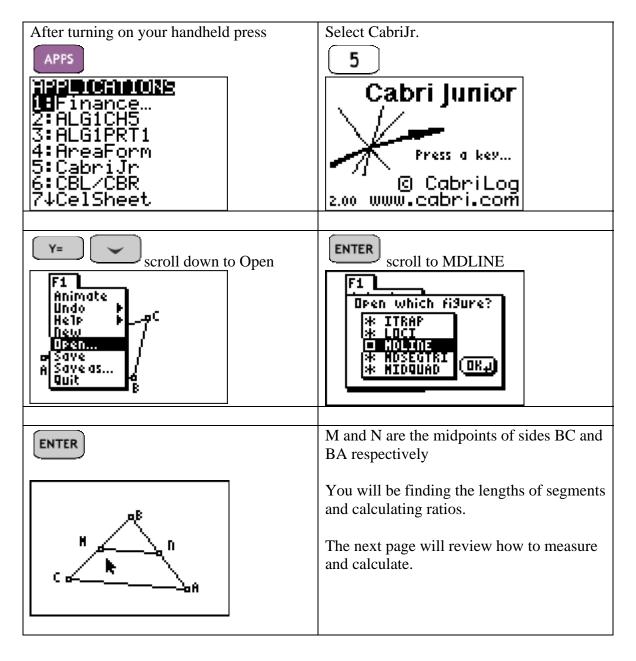
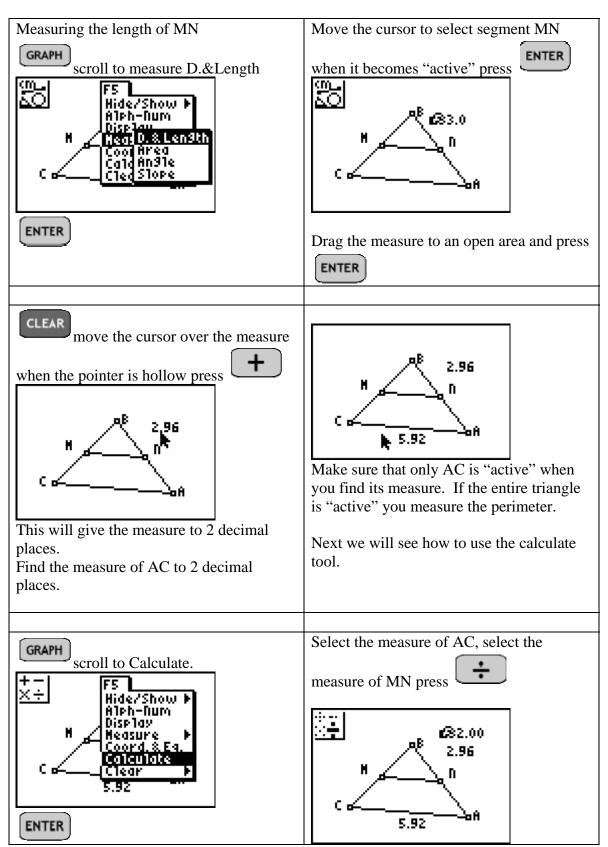
Student Worksheet for G.G. 42





You can now select, grab and drag the vertices and draw conclusions.

1) Select, grab and drag vertex A.

What is changing?

What is remaining the same?

2) Select, grab and drag vertex C.

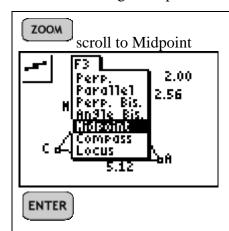
What is changing?

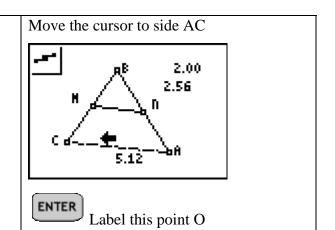
What is remaining the same?

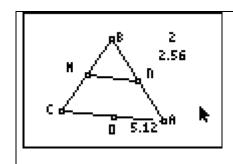
3) Select, grab and drag vertex B.

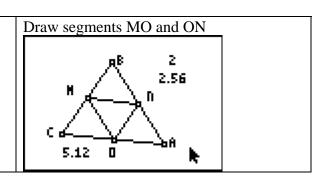
What is changing? What is remaining the same?

Constructing a midpoint:









The measure of BC to 2 decimal places = _____

The measure of ON to 2 decimal places = _____

The measure of AB to 2 decimal places = _____

The measure of MO to 2 decimal places = _____

4)	Calculate the ratio BC:ON. What happens to this ratio as you drag any of the
	vertices?
5)	Calculate the ratio AB:MO. What happens to this ratio as you drag any of the
	vertices?
6)	From your investigations what can you conclude about the measure of a segment
	connecting the midpoints of two sides of a triangle?
7)	Is there any other geometric conclusion you can draw about the pairs of segments
	MN and AC, ON and BC, MO and AB?
8)	From you observations what kind of quadrilateral is BNOC ?
9)	From you observations what kind of quadrilateral is MNAC ?
10)	From you observations what kind of quadrilateral is AOMB?