

## Activity 11 — Midsegment of a Trapezoid

### Objectives

This activity is designed to help students discover the following theorem:

- ✓ *Midsegment Theorem for Trapezoids: The midsegment of a trapezoid is parallel to each of its bases and its length is half the sum of the lengths of its bases.*

### Vocabulary

segment	endpoint
parallel	trapezoid
slope	midsegment
midpoint	

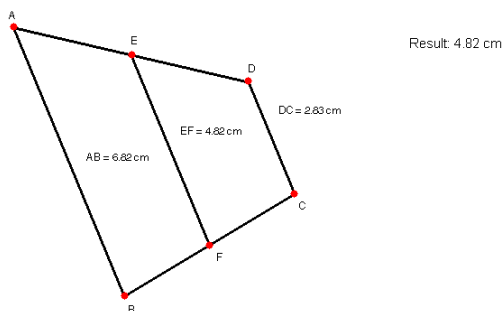
### Prerequisites

Students must understand how to:

- ✓ *Create, measure, and label a segment.*
- ✓ *Create a parallel line.*

### Answers

- Yes.
- Yes.
- Yes.
- The midsegment is parallel to the two parallel sides of a trapezoid.
- Measures will vary.
- The length of the midsegment is half the length of the two parallel sides of a trapezoid.



	AB =	DC =	EF =	AB =	AB =
1	6.91	2.83	4.87	-	-
2	4.97	2.83	3.90	4.97	-
3	6.82	2.83	4.82	6.82	6.82
4					
5					

Figure A.8