

The Midsegment Theorem of Trapezoid

► Activity 13: What a Trap!

Do the procedure below and answer the questions that follow.

Materials: bond paper, pencil, ruler, and protractor

Procedure:

1. Draw trapezoid TRAP where $TR \parallel AP$, $TP = 3\text{ cm}$, $TR = 8\text{ cm}$, and $PA = 8\text{ cm}$.
2. Name the midpoints of TP and RA as G and O , respectively.
3. Connect G and O to form a segment.

Questions:

- Does GO look parallel to the bases of the trapezoid?
- Measure $G O$. How long is it?
- What is the sum of the bases of $TRAP$?
- Compare the sum of the bases and the length of $G O$. What did you find?
- Make a conjecture about the sum of the bases and the length of the segment joined by the midpoints of the legs. Explain your answer.

The segment joining the midpoints of the legs of a trapezoid is called **median**.

Activity 13 helped you discover the following theorem about the median of a trapezoid.

- **Theorem 6:** The median of a trapezoid is parallel to each base and its length is one half the sum of the lengths of the bases.

To prove the theorem above, do *Show Alt!* activity sheet follows.

Show Alt!

Given: Trapezoid $MUNS$ with median TR .

Prove: $TR \parallel MN$, $TR \parallel NS$

$$TR = \frac{1}{2}(MN + NS)$$

Proof:



Statements	Reasons
1.	1. Given
2. Draw \overleftrightarrow{PQ} , with P as its midpoint.	2.
3. $TP = \frac{1}{2}MN$ and $TR \parallel MN$	3.
4.	4. Theorem 3 (Midline theorem), $TR \parallel NS$

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