## Notes for Lesson 5-5: Trapezoids

A quadrilateral with exactly one pair of parallel sides is called a trapezoid. The parallel sides are called the bases and the other sides are the legs.


A trapezoid with congruent legs and base angles is called an isosceles trapezoid.

The median of a trapezoid is the segment that joins the midpoints of the legs.


Use your ruler to find the midpoint of $A B$ and $C D$ (name them $M$ and $N$ ). Connect the midpoints and find the lengths of $A D, B C$, and $M N$.


Theorem 5-19: The median of a trapezoid is 1) parallel to the bases and 2) has a length equal to the average of the base lengths.

Example 1: Find the length of the median of each trapezoid


Example 2: One angle of an isosceles trapezoid has measure $57^{\circ}$. Find the measures of the other three angles.


