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 AB and CD (name them M and N). Connect the midpoints and find the lengths of AD, BC, and MN.



<u>Theorem 5-19</u>: 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°. Find the measures of the other three angles.

