Section 6.6	Name: _____	NOTES
Medians of Trapezoids	Date: _____ Period: _____	

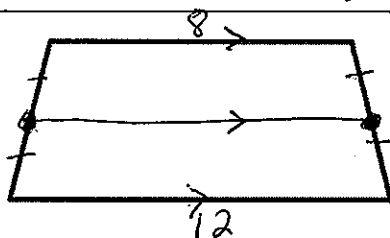| Essential Question	How do I find the (median) of a trapezoid?

Median	The median is the <u>segment</u> that joins the midpoints of its legs.

The median of a trapezoid is parallel to the bases.

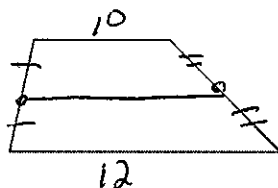The median measures half the <u>two base lengths added together.</u>

$$\frac{B_1 + B_2}{2}$$

Median of Isosceles Trapezoid

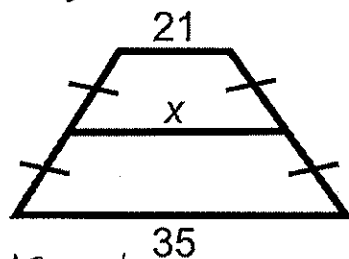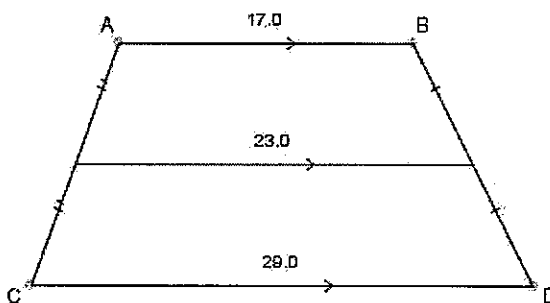$$\frac{8+12}{2} = \frac{20}{2} = 10$$

Median of Trapezoid

$$\frac{10+12}{2} = \frac{22}{2} = 11$$

Find the length of the median of each trapezoid. Determine if they are isosceles.

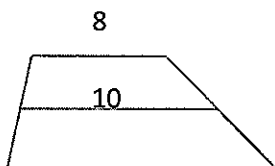$$\frac{21+35}{2} = \frac{56}{2} = 28$$

Isosceles

Trapezoid

Find the length of the base of the trapezoid.

$$\frac{8+x}{2} = 10$$

$$2 \cdot \frac{8+x}{2} = 10 \cdot 2$$

$$= 8+x = 20$$

$$-8 \qquad -8$$

$$\boxed{x = 12}$$