

# Geometry

## Section 6-6

### Selected Answers

$$18. \quad AB = \frac{1}{2}(RS + VT)$$

$$15 = \frac{1}{2}(26 + VT)$$

$$2(15) = 26 + VT$$

$$30 = 26 + VT$$

$$4 = VT$$

$$\boxed{VT = 4}$$

$$20. \quad AB = \frac{1}{2}(TS + QR)$$

$$AB = \frac{1}{2}(12 + 20)$$

$$AB = \frac{1}{2}(32)$$

$$AB = 16$$

$$\boxed{\begin{array}{l} AB = 16 \\ m\angle Q = 60^\circ \\ m\angle S = 135^\circ \end{array}}$$

Consecutive interior  
 $\angle$ s are supplementary.

$$m\angle T + m\angle Q = 180^\circ$$

$$120^\circ + m\angle Q = 180^\circ$$

$$m\angle Q = 60^\circ$$

$$m\angle S + m\angle R = 180^\circ$$

$$m\angle S + 45^\circ = 180^\circ$$

$$m\angle S = 135^\circ$$

$$22. \quad JK = 78$$

\* you've got to draw the  
figures that you need \*