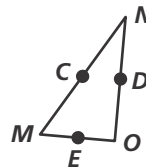# Practice 5-1

Midsegments of Triangles

Use the diagrams at the right to complete the exercises.
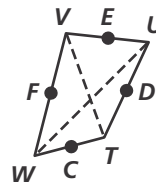
1. In $\triangle MNO$, the points C, D, and E are midpoints. $CD = 4$ cm, $CE = 8$ cm, and $DE = 7$ cm.
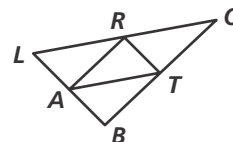
   a. Find MO.   **b.** Find NO.   **c.** Find MN.

2. In quadrilateral $WVUT$, the points F, E, D, and C are midpoints. $WU = 45$ in. and $TV = 31$ in.

   a. Find CD.   **b.** Find CF.   **c.** Find ED.
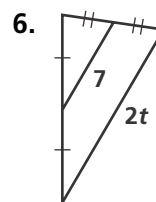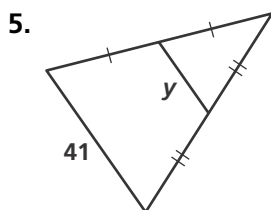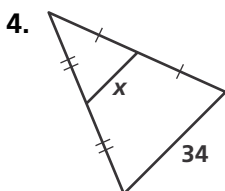

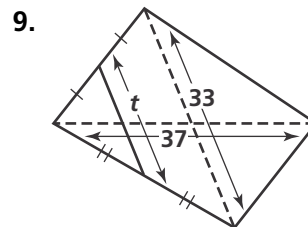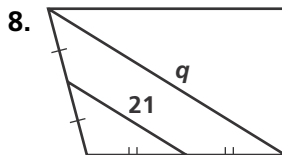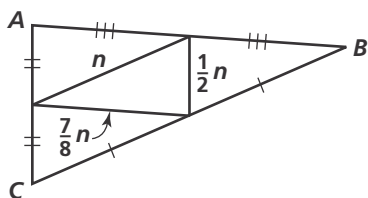**3.** In $\triangle LOB$, the points A, R, and T are midpoints. $LB = 19$ cm, $LO = 35$ cm, and $OB = 29$ cm.

   a. Find RT.   **b.** Find AT.   **c.** Find AR.

Find the value of the variable.

4.

5.

6.

7. Perimeter of $\triangle ABC = 32$ cm

8.

9.

10. $\overline{QR}$ is a midsegment of $\triangle LMN$.

   a. $QR = 9$. Find NM.

   b. $LN = 12$ and $LM = 31$. Find the perimeter of $\triangle LMN$.
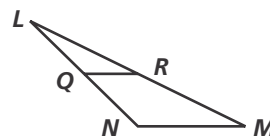
Use the given measures to identify three pairs of parallel segments in each diagram.

11.

12.