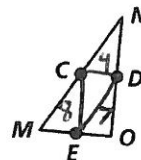


# Practice 5-1

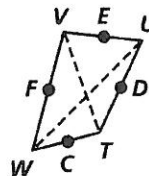
## Midsegments of Triangles

Use the diagrams at the right to complete the exercises.

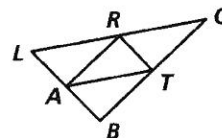
1. In  $\triangle MNO$ , the points  $C$ ,  $D$ , and  $E$  are midpoints.  $CD = 4$  cm,  $CE = 8$  cm, and  $DE = 7$  cm.
- a. Find  $MO$ . b. Find  $NO$ . c. Find  $MN$ .
- 8 16 14



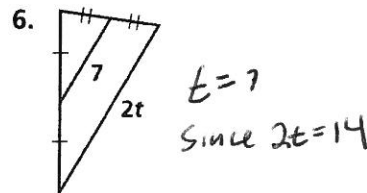
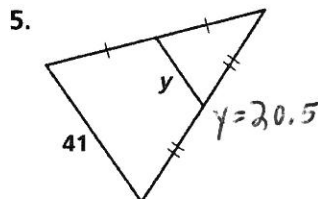
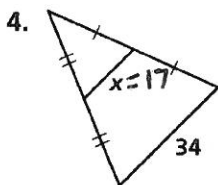
2. In quadrilateral  $WVUT$ , the points  $F$ ,  $E$ ,  $D$ , and  $C$  are midpoints.  $WU = 45$  in. and  $TV = 31$  in.
- a. Find  $CD$ . b. Find  $CF$ . c. Find  $ED$ .
- 22.5 15.5 15.5



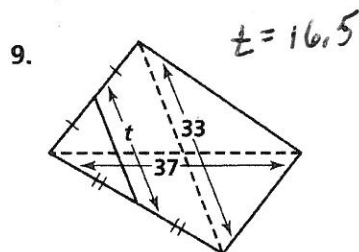
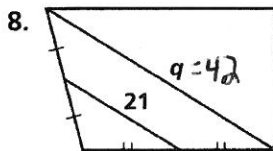
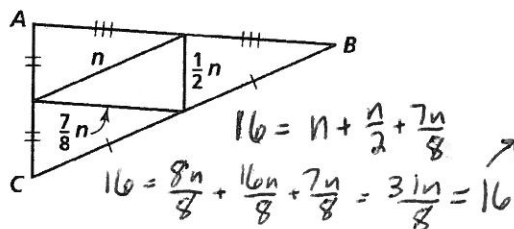
3. In  $\triangle LOB$ , the points  $A$ ,  $R$ , and  $T$  are midpoints.  $LB = 19$  cm,  $LO = 35$  cm, and  $OB = 29$  cm.
- a. Find  $RT$ . b. Find  $AT$ . c. Find  $AR$ .
- 9.5 17.5 14.5



Find the value of the variable.

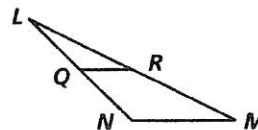


7. Perimeter of  $\triangle ABC = 32$  cm



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

- a.  $QR = 9$ . Find  $NM$ . 18
- b.  $LN = 12$  and  $LM = 31$ . Find the perimeter of  $\triangle LMN$ . 61



Use the given measures to identify three pairs of parallel segments in each diagram.

