Practice 5-1

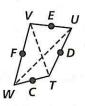
Midsegments of Triangles

Use the diagrams at the right to complete the exercises.

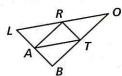
- **1.** In $\triangle MNO$, the points C, D, and E are midpoints. CD = 4 cm, CE = 8 cm, and DE = 7 cm.
 - a. Find MO.
- b. Find NO.
- c. Find MN.



- **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.



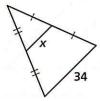
- **3.** In $\triangle LOB$, the points A, R, and T are midpoints. LB = 19 cm, LO = 35 cm, and OB = 29 cm.
 - a. Find RT.
- **b.** Find AT.
- c. Find AR.



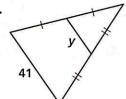
Find the value of the variable.

4.

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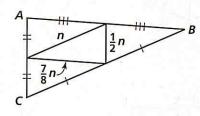
5.



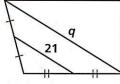
6.



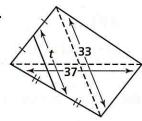
7. Perimeter of $\triangle ABC = 32$ cm



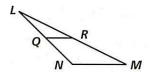
8.



9.

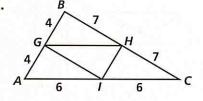


- **10.** \overline{QR} is a midsegment of $\triangle LMN$.
 - **a.** QR = 9. Find NM.
 - **b.** LN = 12 and LM = 31. Find the perimeter of $\triangle LMN$.

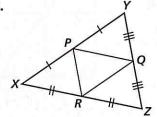


Use the given measures to identify three pairs of parallel segments in each diagram.

11.



12.





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