Name_____ Class_____ Date_____

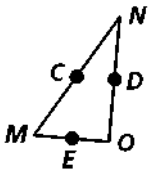
Practice 5-1

Midsegments of Triangles

Use the diagrams at the right to complete the exercises.

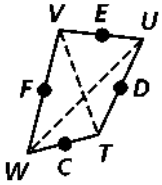
1. In ΔMNO, the points C, D, and E are midpoints. $CD = 4$ cm, $CE = 8$ cm, and $DE = 7$ cm.

a. Find MO. **b.** Find NO. **c.** Find MN



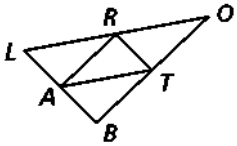
2. In quadrilateral $WVUT$, the points F, E, D, and C are midpoints. $WU = 45$ in. and $TV = 31$ in.

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



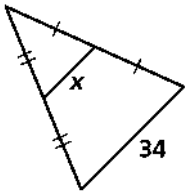
3. In ΔLOB, the points A, R, and T are midpoints. $LB = 19$ cm, $LO = 35$ cm, and $OB = 29$ cm.

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



Find the value of the variable.

4.



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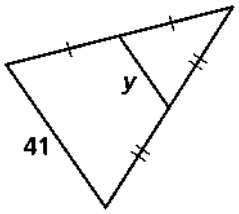

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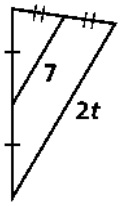
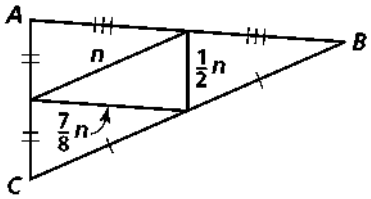


7. Perimeter of $\Delta ABC = 32$ cm



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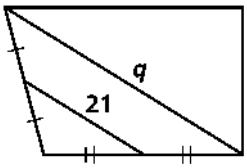

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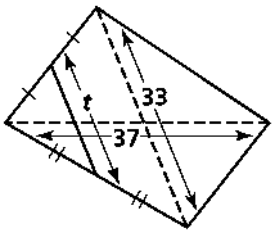
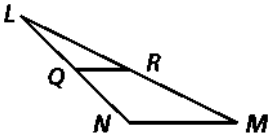


10. $\overline{QR}$ is a midsegment of ΔLMN.

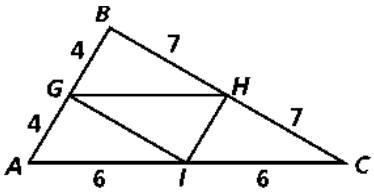
a. $QR = 9$. Find NM

b. $LN = 12$ and $LM = 31$. Find the perimeter of ΔLMN.

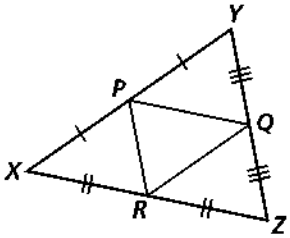


Use the given measures to identify three pairs of parallel segments in each diagram.

11.



12.



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