5-1 Solve It!



5-1 Lesson Quiz

Use the triangle at the right for Questions 1–3.

- **1.** What are the three pairs of parallel segments in $\triangle ABC$?
- **2.** If the length of \overline{XZ} is known, what other segment can you assign a length?
- **3.** If it is given that AX = 3.5, what is the length of *YZ*?
- **4.** Do you UNDERSTAND? In $\triangle MON$, *J*, *K*, and *L* are midpoints. If JL = 11, LK = 13, and ON = 20, and $JL \parallel MN$, $LK \parallel MO$, and $JK \parallel ON$, what is the length of *MN*, *MO*, and *JK*?





Answers

Solve It!

 $MP = \frac{1}{2}AB$; answers may vary. Sample: From the folding process you know that AM = MD and DP = PB. AB = AM + MD + DP + PB,so AB = MD + MD + DP + DPor AB = 2(MD + DP) = 2MP.Then $\frac{1}{2}AB = \frac{1}{2}(2MP) = MP.$ Conjecture: *LN* is the same length as *MP*, so $LN = \frac{1}{2}AB.$

Lesson Quiz

1. $\overline{AB} \parallel \overline{YZ}, \overline{BC} \parallel \overline{XY}, \overline{AC} \parallel \overline{XZ}$

2. *AC*

3. 3.5

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4. MN = 22, MO = 26, JK = 10
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