

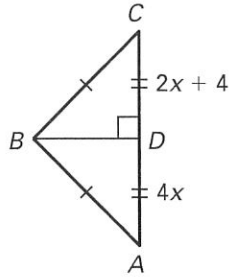
**LESSON 5.2**

**Practice A**

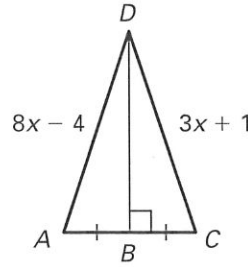
For use with the lesson "Use Perpendicular Bisectors"

Find the length of  $\overline{CD}$ .

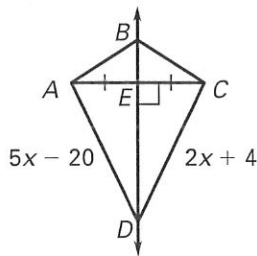
1.



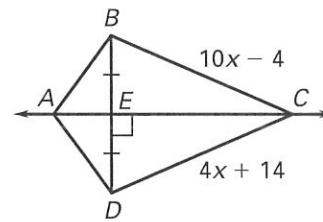
2.



3.

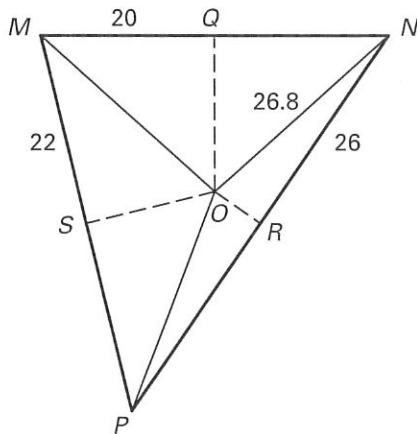


4.



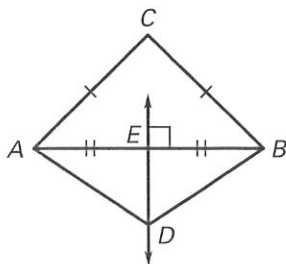
In the diagram, the perpendicular bisectors of  $\triangle MNP$  meet at point  $O$  and are shown dashed. Find the indicated measure.

5. Find  $MO$ .
6. Find  $PR$ .
7. Find  $MN$ .
8. Find  $SP$ .
9. Find  $QN$ .
10. Find  $MP$ .

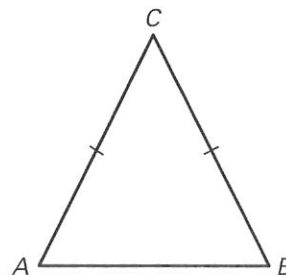


Tell whether the information in the diagram allows you to conclude that  $C$  is on the perpendicular bisector of  $\overline{AB}$ . Explain.

11.

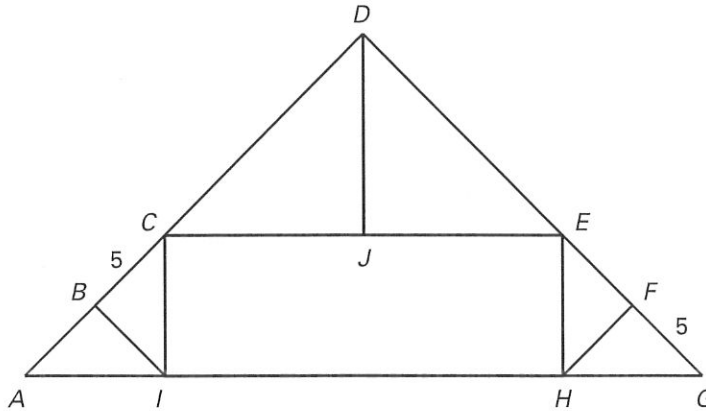


12.



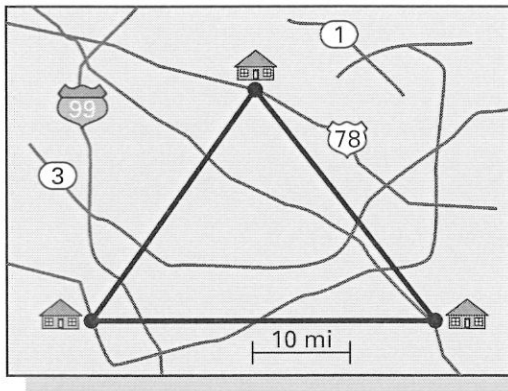
**LESSON**  
**5.2**
**Practice A** *continued*
*For use with the lesson "Use Perpendicular Bisectors"*

- 13. Roof Trusses** Some roofs are built with wooden trusses. An attic truss provides storage space within the roof. Let  $\overline{BI}$ ,  $\overline{FH}$ , and  $\overline{DJ}$  be perpendicular bisectors. If  $CI = 7$ ,  $JE = 10$ , and  $EH = 7$ , find the length of  $\overline{AG}$ .



**In Exercises 14 and 15, use the following information.**

**Construction** A restaurant chain is planning to build a distribution center that is convenient to its three restaurants. The diagram shows the locations of the restaurants. The locations form a triangle.



- 14.** In the diagram, how could you find a point that is equidistant from each location?  
*Explain* your answer.
- 15.** Make a sketch of the situation. Find the best location for the distribution center.