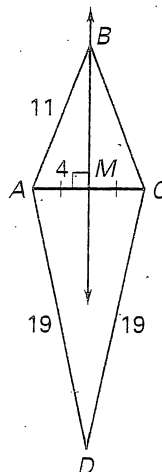


Chapter Test B

For use after Chapter 5

In Exercises 1–3, use the diagram.

- $\overleftrightarrow{BM} \perp \overleftrightarrow{AC}$ and $\overline{AM} \cong \overline{CM}$. Find AC .
- $\overleftrightarrow{BM} \perp \overleftrightarrow{AC}$ and $\overline{AM} \cong \overline{CM}$. Find CB .
- \overleftrightarrow{BM} is the perpendicular bisector of \overline{AC} .
Because $AD = CD = 19$, what can you conclude about point D ?

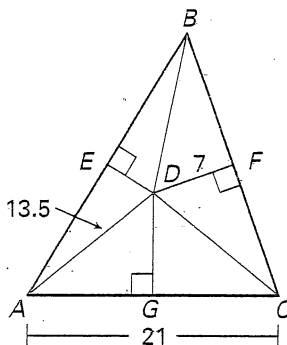


In Exercises 4–6, complete the statement with the word *inside*, *on*, or *outside*.

- The point of concurrency for perpendicular bisectors of a right triangle is ? the triangle.
- The centroid of a triangle is located ? the triangle.
- In an obtuse triangle, the orthocenter is ? the triangle.

In Exercises 7 and 8, use the diagram to indicate measure.

- The perpendicular bisectors of $\triangle ABC$ meet at point D . Find BD .
- Find DC .



Draw the given figure.

- A right triangle with 3 angle bisectors
- An acute triangle with 3 perpendicular bisectors

In Exercises 11–15, complete the statement with the word *always*, *sometimes*, or *never*.

- The perpendicular bisector ? has a vertex as an endpoint.
- The perimeter of the triangle formed by the midsegments is ? half of the original triangle's perimeter.
- The medians will ? intersect inside an acute triangle.
- The perpendicular bisectors of an acute triangle will ? intersect on the triangle.
- Obtuse triangle medians will ? intersect on the triangle.

Answers

- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- See left.
- See left.
- _____
- _____
- _____
- _____
- _____