Name_____ Date_____

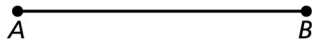**1.** Give another name for $\overline{FE}$.
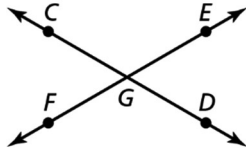
2. Copy the segment and construct a segment bisector by paper folding. Then label the midpoint M.

3. The endpoints of $\overline{AB}$ are $A(9, -1)$ and $B(-6, -7)$. Find the coordinates of the midpoint M.

4. Find the distance between $A(0, 9)$ and $B(4, 17)$.

5. Does the graph of $2 \leq x$ on a number line represent a *segment*, *ray*, *point*, or *line*?

6. In the diagram, $\overline{AB} \cong \overline{BC}$, $\overline{AC} \cong \overline{CD}$, and $AD = 10$. Find the lengths of all the segments in the diagram. What is the probability that a randomly chosen segment has a length of 2.5?
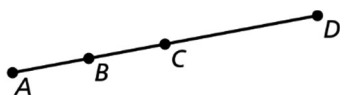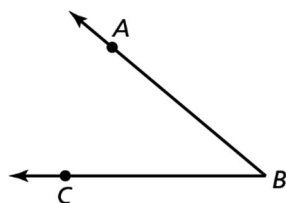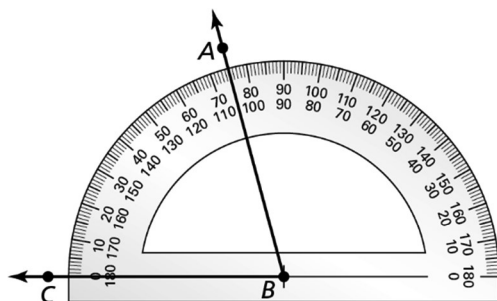
Chapter 1 **Quiz**
For use after Section 1.6

1. Find the perimeter of $\triangle ABC$ with vertices $A(-4, 4)$, $B(4, -1)$, and $C(-4, -1)$.

2. Find the area of $\triangle ABC$ with vertices $A(3, -6)$, $B(5, -6)$, and $C(7, -9)$.

3. Copy the angle and construct the angle bisector with a compass and a straightedge.

4. Find $m\angle ABC$. Then classify the angle.

5. Two vertices of $\triangle ABC$ are $A(1, 0)$ and $B(5, 3)$. Find the coordinates of C on the positive x-axis such that the value of the perimeter of the triangle is twice the value of the area of the triangle.