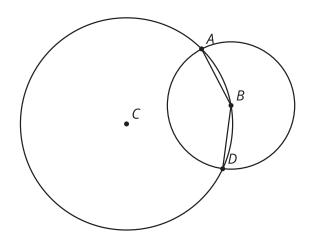
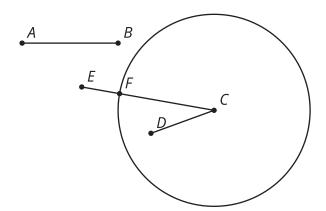


Lesson 1 Practice Problems

1. Here is a diagram of a straightedge and compass construction. C is the center of one circle, and B is the center of the other. Explain why the length of segment BD is the same as the length of segment AB.



2. Clare used a compass to make a circle with radius the same length as segment AB. She labeled the center C. Which statement is true?



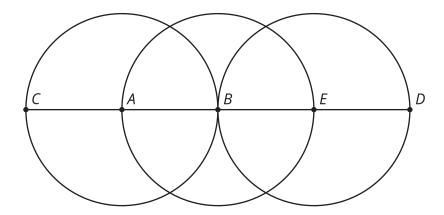
A.
$$AB > CD$$

B.
$$AB = CD$$

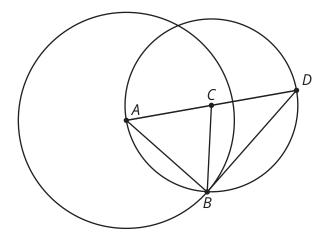
D.
$$AB = CE$$



3. The diagram was constructed with straightedge and compass tools. Points A, B, C, D, and E are all on line segment CD. Name a line segment that is half the length of CD. Explain how you know.



4. This diagram was constructed with straightedge and compass tools. A is the center of one circle, and C is the center of the other.



- a. The 2 circles intersect at point B. Label the other intersection point E.
- b. How does the length of segment CE compare to the length of segment AD?