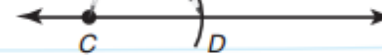




To duplicate a line segment, you don't have to draw a full circle.

You can duplicate a line segment by constructing an exact copy of the original line segment.



### Construct a Starter Line

Use a straightedge to construct a starter line longer than  $\overline{AB}$ . Label point  $C$  on the line.



### Measure Length

Set your compass at the length  $AB$ .



### Copy Length

Place the compass at  $C$ . Mark point  $D$  on the new segment.

Line segment  $CD$  is a duplicate of line segment  $AB$ .



1. Construct a line segment that is twice the length of  $\overline{AB}$ .

Make sure  
to construct a  
starter line first.

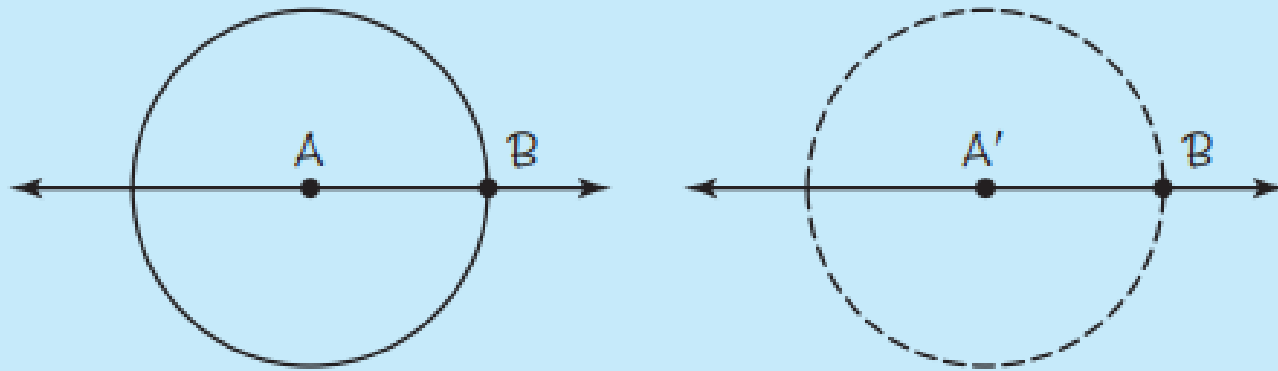


2. Duplicate each line segment using a compass and a straightedge.



3. Dave and Sandy are duplicating  $\overline{AB}$ . Their methods are shown.

Dave



Sandy



Which method is correct? Explain your reasoning.



4. Which method do you prefer? Why?