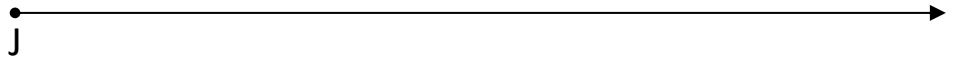
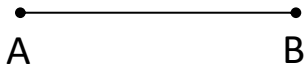
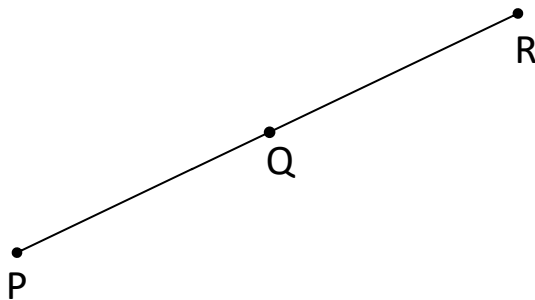


1. Follow the steps and answer the questions:

- a. Using your compass and a straightedge, copy \overline{AB} and label it \overline{JK} .



- b. Using K as your endpoint, copy \overline{AB} again such that it is adjacent to \overline{JK} . Label it \overline{KL} .
- c. Verify that K is the midpoint of \overline{JL} using a geometric construction.
- d. Using your compass, compare the lengths of your constructed segment \overline{JL} and the segment \overline{PR} with midpoint Q below. What is their relationship? _____



- e. Using your compass, compare the lengths of your constructed segment \overline{JK} and the segment \overline{QR} below. What is their relationship? _____
- f. What do you predict is the relationship between \overline{KL} and \overline{PQ} ? _____
 Why? _____