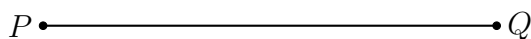


**1-1 Classwork: Geometric measurement**

1. Given the line segment  $\overline{PQ}$  shown below. Answer the questions and complete as directed.
  - (a) Measure the length of the segment in centimeters.  $PQ =$
  - (b) Is the segment horizontal, vertical, or diagonal?
  - (c) With a compass, draw a circle centered at  $P$  that passes through  $Q$ .
  - (d) Draw a circle centered at  $Q$  that passes through  $P$ .

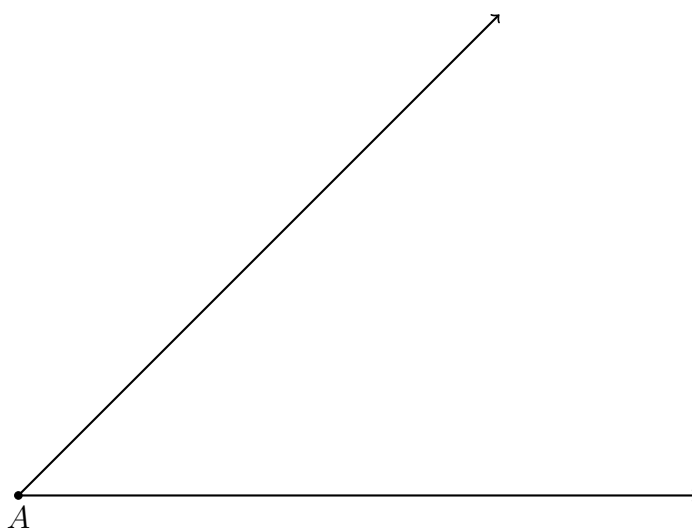


2. Given an angle with vertex  $A$ . Answer the questions and complete as directed.

(a) Using a compass, measure angle  $A$  in degrees.  $m\angle A =$

(b) Mark and label a point  $B$  that is 4 centimeters from  $A$  on the horizontal ray.

(c) Draw a circle centered at  $A$  with a radius of 4 centimeters.



3. Given the rectangle  $ABCD$  shown below. Answer the questions and complete as directed.

(a) Measure the length of the rectangle in centimeters.  $AB =$

(b) Measure the height of the rectangle in centimeters.  $AD =$

(c) Calculate the area of the rectangle in square centimeters.

(d) Using a straight edge, draw a diagonal from point  $A$  to  $C$ .

(e) Lightly shade the bottom triangle,  $\triangle ABC$ .

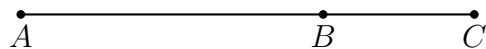
(f) Of the two triangles,  $\triangle ABC$  and  $\triangle CDA$ , which has a larger area, or are they the same?

(g) Measure the length of the diagonal.  $AC =$



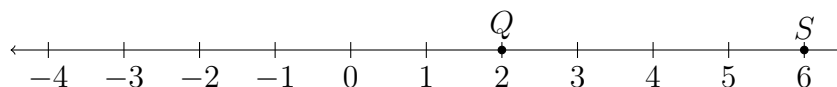
4. The points shown are in a straight line,  $\overline{ABC}$ . Given the lengths  $AB = 4$  cm and  $BC = 2$  cm.

(a) Calculate the length  $AC$ .



(b) Justify your answer.

5. Given  $\overleftrightarrow{QS}$  as shown on the number line.



(a) In the given number line units, what is the distance between  $Q$  and  $S$ ?  $QS =$

(b) Mark the point  $R$ , the midpoint of  $\overline{QS}$ .