BECA / Dr. Huson / Geometry 01-Intro Name:
pset ID: 0

1-1CW-Measurement

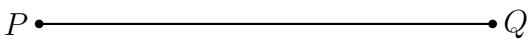
1. Given the line segment $\overline{PQ}$ shown below. Answer the questions and complete as directed.

   (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.

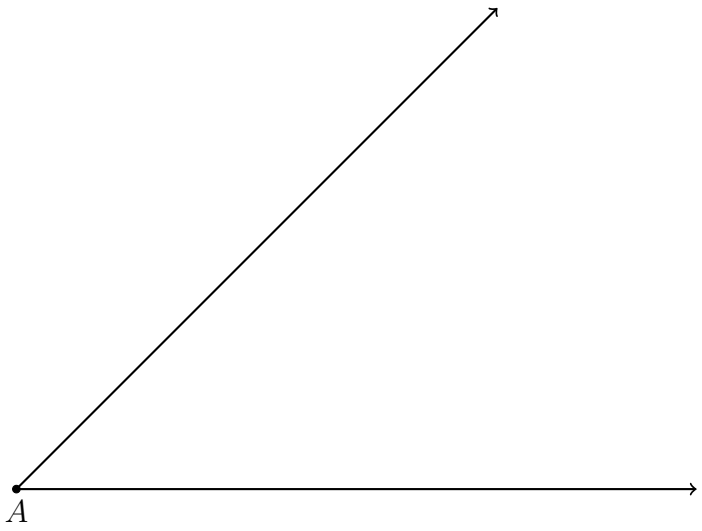


2. Given an angle with vertex A. Answer the questions and complete as directed.

   (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.



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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. $AD =$

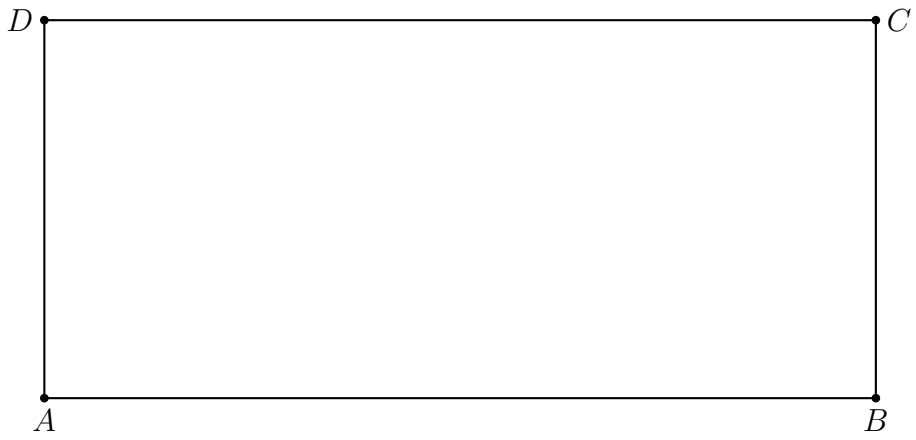
   (c) Calculate the area of the rectangle in square centimeters.

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

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

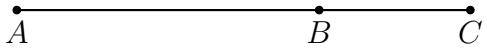
   (f) Of the two triangles, $\triangle ABC$ and $\triangle CDA$, which has a larger area, or are they the same?

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



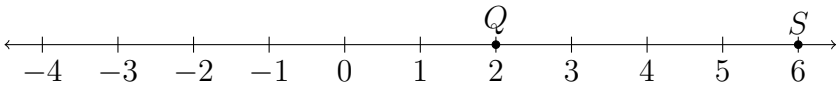
4. The points shown are in a straight line, $\overline{ABC}$. Given the lengths $AB = 4$ cm and $BC = 2$ cm.

   (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 $\overline{QS}$.