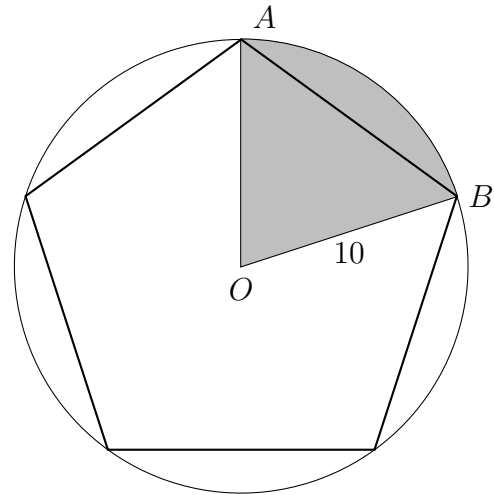


Name:

11.1 Classwork: Circle

1. A pentagon is inscribed in circle O , as shown below. The circle has radius $r = 10$.

(a) Find the area of the sector AOB .



(b) Find the perimeter of the sector AOB .

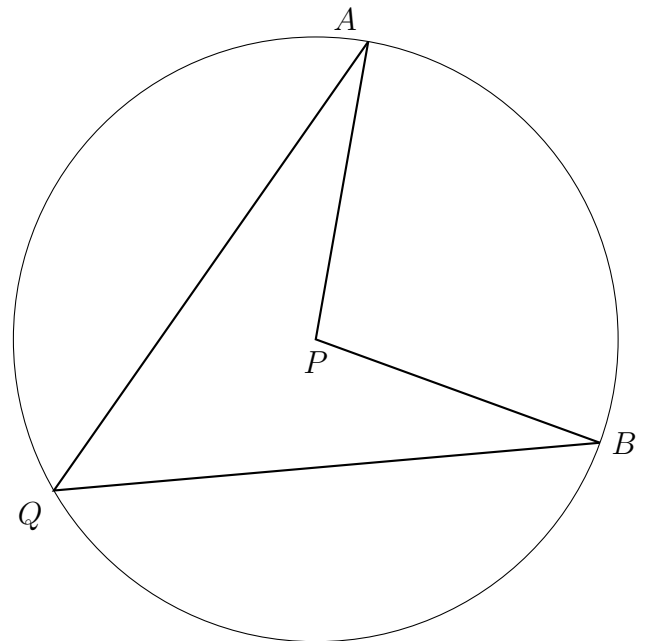
Estimating and measuring

2. Given the circle with center P with central angle $\angle APB$ and inscribed angle $\angle AQB$. Using a protractor, measure each angle.

(a) $m\angle APB =$

(b) $m\angle AQB =$

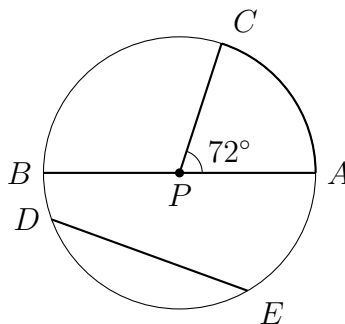
(c) What do you think is the ratio of the central angle to the inscribed angle?



Vocabulary self-assessment: Circles (fill in the blank with the correct term)

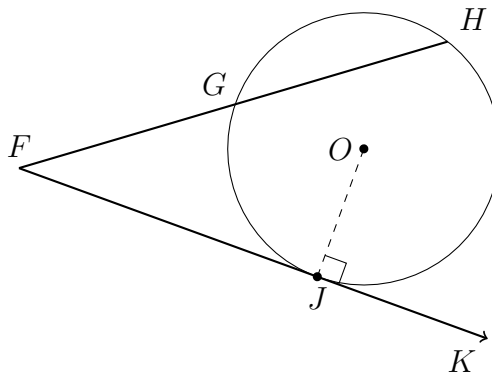
3. **Internal line segments:** Circle with center at point P , as shown.

- \overline{AB} _____
- \overline{CP} _____
- \overline{DE} _____
- $\angle APC$ _____
- \widehat{AC} _____



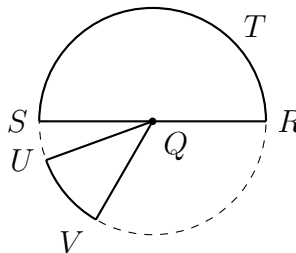
4. **External lines:** Circle with center at point O , at right.

- \overline{FGH} _____
- \overline{OJ} _____
- \overrightarrow{FJK} _____
- J _____



5. **Areas:** Circle with center at point Q .

- \overline{RS} _____
- $\angle RST$ _____
- $\angle QUV$ _____



6. **Polygons and angles in circles:**

- $\triangle XYZ$ _____
- $\angle XYZ$ _____

