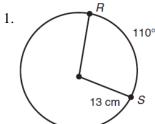
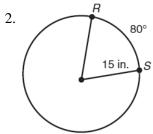
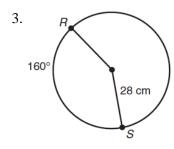
## 12.2 ~ ARC LENGTH

Past due on: \_\_\_\_\_ Period:

Find the length of  $\widehat{RS}$ . Express your answer in terms of  $\pi$  and expressed as a decimal rounded to the nearest hundredth.



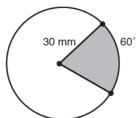




- 4. If the measure of  $\widehat{KL}$  is 15° and the diameter is 18 5. If the measure of  $\widehat{OP}$  is 165° and the diameter is feet, what is the arc length of  $\widehat{KL}$  to the nearest hundredth of a foot?
  - 21 centimeters, what is the arc length of  $\widehat{OP}$  to the nearest hundredth of a centimeter?
- 6. Charlie would like to put edging along the circular edge of her flower garden. At the right is a diagram of her flower garden. How much edging will she need if she just puts it along the circle part? Round your answer to the nearest hundredth if necessary.



- 7. Sam used a tape measure and determined the circumference of a flagpole to be 6.2 inches. What is the radius of the flagpole to nearest tenth of an inch?
- 8. Dean used a string and a tape measure to determine the circumference of a circular cap to be 12.56 inches. What is the radius of the cup to the nearest tenth of an inch?
- 9. Determine the perimeter of the shaded region. Round your answer to the nearest hundredth of a millimeter.



10. Determine the perimeter of the figure below. Round your answer to the nearest hundredth of a centimeter.

