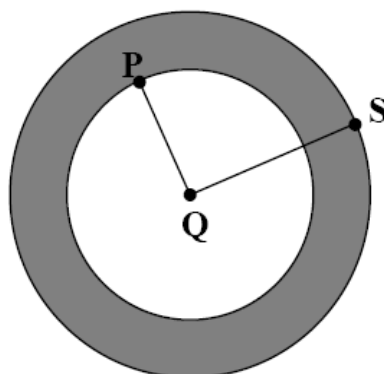


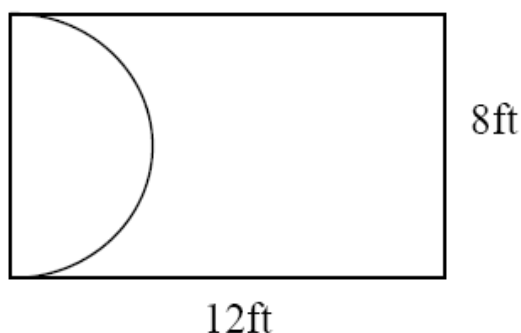
Name: _____

Circumference and Area of a Circle

- 1) Find the area of the shaded region below in terms of π if $QP = 8$ ft and $QS = 12$ ft.

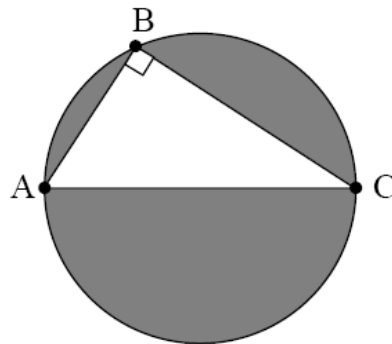


- 2) Mrs. White has a rectangular foyer in her home. She wants to lay hardwood flooring down on all of the area except for the semi circular area in front of the entrance door.



- Calculate to the nearest square foot how much hardwood flooring Mrs. White will need. Use the accompanying diagram below.
- Use your answer from part (a) to calculate the cost of the hardwood flooring if it is priced at \$2.25 per square foot.

- 3) In the following diagram, right triangle ABC is inscribed in a circle. It is given that $AC = 26$, $BC = 24$ and AC is the diameter of the circle. Determine the area of the shaded region to the nearest *hundredth*.



- 4) Two circles having a diameter of 4 inches are within rectangle $KLMN$. It is given that $LM = 7$ inches and $NM = 12$ inches. Find the area of the shaded region to the nearest tenth of a square inch.

