

Name: _____

Date:

Worked with: _____

Challenge Problem 1

Problem: Use a dial caliper to

- 1) Measure the O.D. and I.D. of a PVC pipe
- 2) Calculate the area of the cross section of your PVC pipe, rounded to the nearest thousandth of a square inch
- 3) Convert your answer to square centimeters.

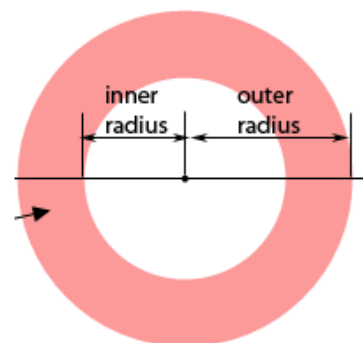
Show your work, including the formulas used.

Hints: - A cross section is the intersection of a three-dimensional object with a plane.

- Calculate only the area of the pipe—not the space inside of it.
- Include correct units in your answer.

Measurements:

Formulas:



Solution: $A =$