

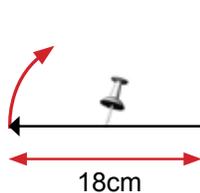
## 19. Board Game

Name \_\_\_\_\_

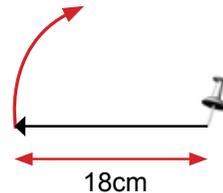
**Directions:** Please show all work, describe how you got the answer, and circle your final answer. If you use a calculator, say so, but also write out the calculations you did with the calculator.

**The Problem:** Samantha had a long, skinny cardboard pointer that she was going to use to make a spinner for a board game. The pointer was 18 cm long. She was deciding where to put the pin along the length of the pointer to make it spin. If she put the pin in the middle of the length of the pointer, what would be the circumference of the circle traced by the pointer? If she put the pin at the end of the length of the pointer, what would be the circumference of the circle traced by the pointer?

(The circumference of a circle is equal to the diameter of the circle times pi [ $C = \pi * d$ ], or two times the radius of the circle multiplied by pi [ $C = \pi * 2 * r$ ].)



Pin in Middle of Length of Pointer



Pin in End of Length of Pointer