Warm-up Problem

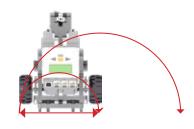
Name



18. Calculating Circumference

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

The Problem: Marcus has a robot with a width from wheel to wheel of 15cm and he attached a pen to the back of one of the wheels. What is the circumference of the circle traced by the wheel of Marcus' robot when the robot is making a swing turn? What is the circumference of the circle traced by the wheel when the robot is making a point turn?



(Recall that a swing turn is when one wheel is moving and the other stays stopped, and a point turn is when one wheel moves forward and the other moves backward. Also, 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].)