## 27. Ratios to Robots Cont.

## Name

Directions: Show all work, describe how you got the answer using mathematics and words, and circle your final answer.

The Problem: Suppose Jazmine made a dance routine and on her first move the robot needed to travel straight forward a distance of 47 centimeters. How many degrees of motor rotations should she put in her program for this robot to do this move correctly? Explain your answer using math and words.


Figure 1: When this robot was programmed to do $360^{\circ}$ of motor rotations it traveled straight 9.4 centimeters.

