

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.*

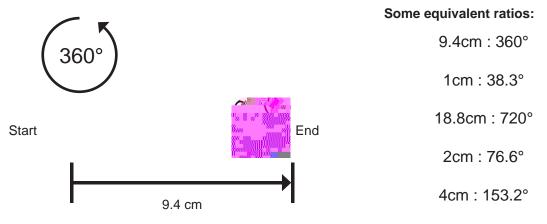


Figure 1: When this robot was programmed to do 360° of motor rotations it traveled straight 9.4 centimeters.