Turning Exercise – Part 1

Name: _____

1. To make your robot **turn sharply**, have the steering on the <Move Steering> block set to 100. Set the wheel rotations to 1.

2. The wheels make **1 rotation**. How far does the robot **turn**?
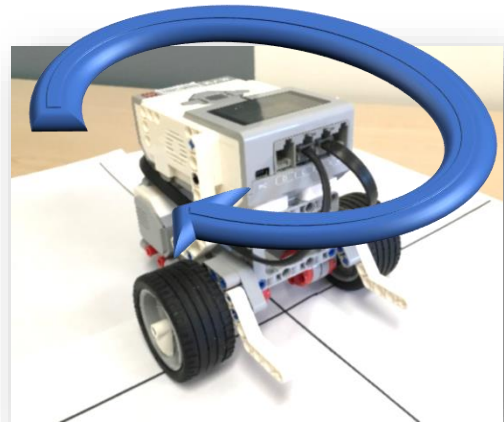
_____

Hint:
half a turn, a full turn, or …

Hint: Place your robot on the center of intersecting lines. Line up your wheel axle with one of the lines.

The wheels *rotate*

The robot *turns*

3. The wheels make **2 rotations**. Estimate (guess) how far the

   robot will **turn**.

   _____

   Now program the robot with 2 wheel rotations. How far does

   the robot **turn**? _____

4. The wheels make **4 rotations**. Estimate again: how far will

   the robot turn?

   _____

   Now program the robot with 4 wheel rotations. How far does

   the robot **turn**? _____

5. Challenge:

   The wheels make **1.5 rotations**. Do you know how far the

   robot will turn? Write down what you think.

   _____

   Now program the robot with

   1.5 wheel rotations. How far does the robot turn?

   _____