Navigating a Maze Worksheet

Answer the following questions related to the program design:

1. **Define the task you would like to perform:**

2. **Write a set of instructions in English (such as: go forward X inches, turn Y rotations left, etc.) that the robot needs to do to successfully navigate the provided maze structure.**

3. **Are other solutions possible?**

Answer the following questions related to the EV3 software:

4. **What are the three choices for the "Direction" option on a Move Block?**

5. **What does "Steering" control? How do you change the steering?**

6. **What does "duration" mean? What is a rotation?**

7. **How many inches does one rotation typically make the robot move?**

8. **Assuming that the steering pointer pulled all the way in one direction, how many rotations is generally a good, 90-degree turn?**

9. **Brainstorm about possible programming solutions and write below the one that your group thinks is a good one.**

10. **Did you have to "iterate" (make changes to the program, etc.) to make it work?**
    How many iterations did you have to perform?