Name: _____ Date: _____ Class: _____

Navigating a Maze Pre/Post Quiz Answer Key

1. **What is the difference between a program and an algorithm?**

   A program is a sequence of instructions written to direct a computer to perform a task. It is specific to the computer.

   On the other hand, an algorithm is a clear and specific procedure for solving a problem in a finite number of steps. This is general to any task. As an example, the "addition algorithm" gives a procedure for how to add any two numbers.

2. **About how many inches does an EV3 taskbot move in one rotation of the motor?**

   An EV3 taskbot moves about 7 inches in one rotation. Note that this depends on the wheel used, and we are assuming the wheel used on the taskbot per the instructions in the manual that comes with the base set.

3. **How many rotations do you need for a 90° turn?**

   A 90° turn is about 0.5 rotations with the steering pointer pulled all the way in one direction