

What Is a Program? Worksheet **Answer Key**

Answer the following questions related to the LEGO **EV3** software:

1. What are the 3 choices for the “Direction” option on a Move Block?

The three choices are: forward, back, stop.

2. What does “Steering” control?

Steering allows us to easily make the robot turn. Dragging the pointer to the left makes the robot turn left, and dragging it to the right makes the robot turn right.

3. How do you change the steering?

The farther to one side the pointer is dragged, the sharper the turn will be; if the pointer is dragged all the way to one side, the robot should turn in place.

4. What does “Duration” mean?

“Duration” is another way of saying: For how long will an action occur?

In this case, duration means how long the motors rotates.

5. What is a rotation?

A rotation is one full spin of the motor.

6. How many inches does 1 rotation typically make the robot move?

Approximately 7 inches

7. Assuming that the steering pointer is pulled all the way in one direction, how many rotations is generally a good, 90° turn?

0.5 rotations