

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Fibonacci Robots Worksheet

Term Number	Term	Distance
1	0	-
2	1	X
3	1	X
4	2	2X
5	3	3X
6	5	5X
7	8	8X
8	13	13X
9	21	21X
10	34	34X

**Table key:** X = distance between term number 1 and 2 (circumference of wheel)

1. Using the information in the table above, divide the distance corresponding to term number 5 by the distance corresponding to term number 4. What is the quotient?
2. What is the first number greater than 100 in the Fibonacci sequence?
3. How did you connect the arm to the LEGO robot? Did you use a motor to grab the marker?
4. Describe the steps taken to write a working program? Did you use any loops or branches?
5. What changes can you make to the robot so that the distance between stops is easier to measure?