

## Fibonacci Robots Worksheet **Answers**

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?

**Approximately 1.5**

2. What is the first number greater than 100 in the Fibonacci sequence?

**144, term number 13**

3. How did you connect the arm to the robot? Did you use a motor to grab the marker?

**Answers will vary.**

4. Describe the steps taken to write a working program? Did you use any loops or branches?

**Answers will vary.**

5. What changes can you make to the robot so that the distance between stops is easier to measure?

**Many answers, such as: Add a long pause between stops so that it is easier to measure...**