



Understanding Variation

1 Looking at Repeated Results

1 Mr. Bee ran the same test three times.

Test	Power Level	Distance
1	0.5	10.2
2	0.5	10.0
3	0.5	10.1

1. Circle the largest distance.
2. Underline the smallest distance.

2 Answer:

Are the results exactly the same? _____

Are they close to each other? _____

2 Thinking About Why Results Change

1 Choose **two reasons** that could explain the small differences:

- A. The surface changed
- B. The starting position changed
- C. The robot forgot how to move
- D. Small movements can affect results

2 Explain your choice in one sentence:

3 Explaining Variation

1 Finish the sentence:

Variation means that _____

2

True or False:

Variation means something went wrong. _____

4

Reflection

1

Why is it helpful to repeat a test more than once?

Write one or two sentences.
