

Title: Variation in Pea Seeds

Purpose:

- to demonstrate variation in numbers of seeds in different types of pea pods
- to organize and graph data

Materials:

- sample of each type of pea pod
- 25 pea pods of a single type of pea per group

Procedure:

- Describe the shape, size, texture, color, etc of different types of pea pods
- Open 25 pods of each type of pea
- Count the number of pea seeds in each pod
- Record your data in a data chart
- Determine the following statistics:
 - average number of peas per pod
(total number of seeds/total number of pods)
 - range in number of peas per pod
 - median (middle value)
 - mode (most frequent value)
- Obtain data on average number of peas per pod in different types of pea pods from other groups
- Use the averages to construct a bar graph
 - type of seed on horizontal axis
 - average number of seeds on vertical axis

Results:

- Data chart for your pea seed counts
- Data chart for class data
- Graph

Discussion: see lab grading guidelines for details: <http://www.jdenuno.com/PDFfiles/LabGuide1.PDF>

Conclusion: Single sentence (10 words) about which type of pea shows the least variation and which type shows the most variation in number of peas per pod

Reflection: see lab grading guidelines for details: <http://www.jdenuno.com/PDFfiles/LabGuide1.PDF>

