

Name _____

Date _____

Partner _____

Counting Very Small Things

Your goal is to *accurately* and *efficiently* determine the number of grains of rice contained in a jar of rice. You may use whatever method you like. You must outline the method you used and defend it for its accuracy and efficiency. Read sections 3.6 - 3.8 in the text for background related to this exercise.

The following devices are at your disposal:

balance

ruler

beaker

graduate cylinder

I. Discuss with your partner the best approach to use to meet the above goal. Once you have debated and agreed upon a method, proceed to implement your experiment.

II. Outline as succinctly as possible below the method you employed. This is most easily done using a bulleted outline format. In the space at the bottom of this page summarize measurements and other relevant data in a clear tabular format.

Data Summary (include clear labels and units as appropriate)

Questions to be Answered After Completing this Experiment

1. What is the number of grains of rice in the jar you studied?
2. Is the method you employed efficient? Explain.
3. Is the method you employed accurate? Explain.
4. Which of the above two challenges is the greater strength of your method? Explain.
5. In what way is this exercise related to topics presented in Sections 3.6 - 3.8 of the text?