

Lab: Precision and Accuracy

Step 1.

Using Ruler A, measure as best you can Unknown 1.

Record your data in your lab book.

Be sure to label your data as “Ruler A, Unknown 1 _____”

Using ruler A, measure as best you can Unknown 2.

Record your data in your lab book.

Be sure to label your data as “Ruler A, Unknown 2 _____”

Step 2.

Turn in your rulers.

As a class, we will compare the answers for Step 1.

Step 3.

Using Ruler B, measure as best you can Unknown 1.

Record your data in your lab book.

Be sure to label your data as “Ruler B, Unknown 1 _____”

Using Ruler B, measure as best you can Unknown 2.

Record your data in your lab book.

Be sure to label your data as “Ruler B, Unknown 2 _____”

Step 4.

Turn in your rulers.

As a class, we will compare the answers for Step 2.

Step 5.

Using Ruler C, measure as best you can Unknown 1.

Record your data in your lab book.

Be sure to label your data as “Ruler C, Unknown 1 _____”

Using Ruler C, measure as best you can Unknown 2.

Record your data in your lab book.

Be sure to label your data as “Ruler C, Unknown 2 _____”

Step 6.

Turn in your rulers.

Turn in your unknowns.

As a class, we will compare the answers for Step 5.

Discussion:

For each measurement above, how many significant digits do you have?

Which measurements were the most Accurate?

Which measurements were the most Precise?