

SCIENTIFIC INVESTIGATION

1. On previous SOL tests, students have been asked to choose the piece of glassware that gives the most *precise* results. They have usually been given the following choices:

beaker flask pipet test tube graduated cylinder

Of these choices, the most precise piece of glassware is the GRADUATED CYLINDER

because EACH LINE REPRESENTS 1 mL or 0.1 mL. SMALL DIVISIONS BETWEEN LINES = MORE PRECISE.

2. When you read the volume on a graduated cylinder or you measure length with a ruler, you should always estimate the final digit. The final estimated digit will always be one power of ten smaller than each line is worth on the instrument. In other words, if the ruler shows lines every 0.1 cm, then you estimate length to the nearest 0.01 cm.

Estimate the length of this strip: 6.75 cm



3. If you measure something in an experiment, why do you think it is a good idea to perform the measurement three separate times and take the average result?

TO VERIFY YOUR RESULTS: TO GET CONSISTENT, REPRODUCIBLE RESULTS

4. If you take several measurements, then your data will be *precise* if

THE NUMBERS ARE VERY CLOSE TO EACH OTHER

5. Data is considered to be *accurate* if THE NUMBERS ARE CLOSE TO THE ACCEPTED VALUE

6. A common scenario is to show data that is *precise but not accurate*. The boiling point of water is 100.0°C. Give an example of data for the BP of H₂O that is *precise but not accurate*:

Trial 1: 81°C Trial 2: 82°C Trial 3: 82°C Trial 4: 81°C (answers may vary)

6. Basic lab techniques for separation of a mixture are listed below. Match the physical property with the separation technique.

C chromatography

A. boiling point

B filtration

B. particle size

A distillation

C. interaction with the solvent (polarity)

Chemistry Sol Review Material Packet Answers

L Darling-Hammond



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