

Significant Digits and Measurement

What digits are significant when recording a measurement?

Why?

Scientists do a lot of measuring. When scientists use an instrument (such as a ruler, graduated cylinder, spectrophotometer or balance) to measure something, it is important to take full advantage of the instrument. However, they can't cheat and record a better measurement than the instrument is capable of. There is an understanding among scientists of the proper way to record valid measurements from any instrument. When you are the scientist, you must record data in this way. When you are reading other scientists' work, you must assume they recorded their data in this way.

Model 1 – Ruler A



Susan	3 cm
Maya	2 cm
Jonah	2.5 cm
Tony	3.00 cm
Emily	3¼ cm
Dionne	3.33 cm

1. What distances can you be certain of on the ruler in Model 1?
2. Six students used the ruler in Model 1 to measure the length of a metal strip. Their measurements are shown at the right. Were all of the students able to agree on a single value (1, 2, 3...) for any digit (ones place, tenths place, etc.) in the measurement? If yes, which value and digit did they agree on?
3. The ruler in Model 1 is not very useful, but a measurement can be estimated. Discuss in your group how each student might have divided up the ruler "by eye" in order to get the measurement that he or she recorded.

Pogil Significant Figures And Measurments Answers

Rosina Winifred Lee



Pogil Significant Figures And Measurmets Answers:

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Measurement and Significant Figures Rosina Winifred Lee,1970 *Significant Figures Made Easy* Joan C. Obermiller,1988 **Exploring Mathematics on Your Own: The World of measurement** ,1961

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