

Known: to recognize with certainty Unknown : unidentified, nameless, not known Estimate : to judge an approximate value alibration: smallest space on an instrument Vocabulary


Carijfy bere


How to Calibrate a Ruler

1. find $t_{w o n}$ numbered lines on the ruler and subtract their values.
2. Bunt the number of spaces that separate them.
3. To calibrate simply divide \#1 by \#2.


Simple Rule of Measuring: Thben measuring a ways read an instrument out to where the last digit you record is an estimate and all the digits before it are known:

What is the length of the pencil?


What is the length of the pencil?


Caibration $=1 \mathrm{~cm}$ per pacce

What is the length of the pencil?


Caibration $=0.5 \mathrm{~cm}$ per space

What is the length of the pencil?


Catibration $=0.1 \mathrm{~cm}$ per space


Dístance - 1 dímensional


Measuring:

## Area - 2 dimensional



Square


Sarasota High s
$3.63 \mathrm{~cm} \times 3.63 \mathrm{~cm}=13.2 \mathrm{~cm}^{2}$

Measuring:

## Volume - 3 dimensional

## Volume



## Cbe


$1.70 \mathrm{~cm} \times 1.70 \mathrm{~cm} \times 1.70 \mathrm{~cm}=4.91 \mathrm{~cm}^{3}$

Remember:

Smaller calibrations $=$ more accurate measurements.

Read an instrument out to where the las digit is an estincle and all disjis to the left are known.

Always end your measurement willy a unit.

