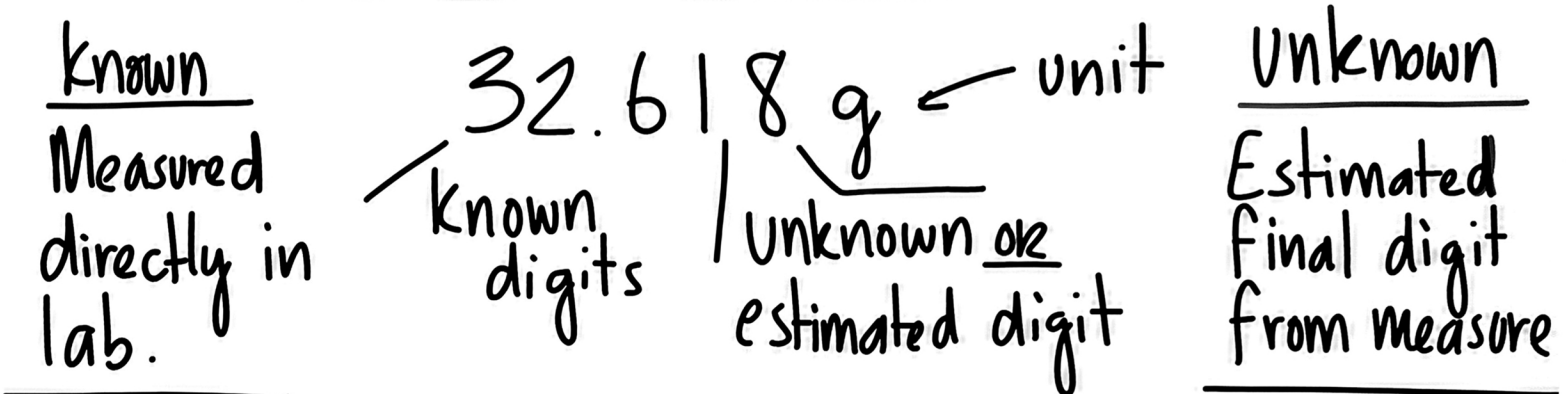


Noteset 0D (Part 3) - Accuracy in Measured Values

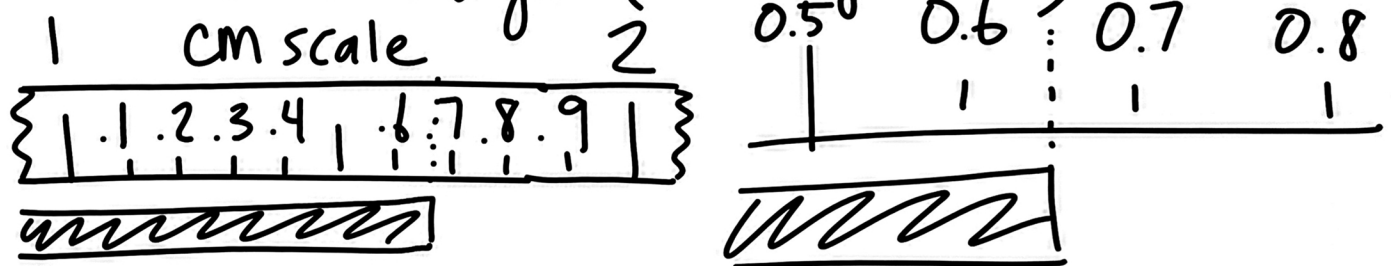
Accuracy in measured values



All measurements have any # known but only 1 unknown digit

Accuracy in measured values

Determine unknown digit (accuracy limit)



Known: 1.6 cm
(From Ruler)

Unknown: 0.05 cm
(estimated)

Total = 1.65 cm

Accuracy in measured values

Determine accuracy (\pm value)

<u>Measure</u>	<u>known</u>	<u>unknown</u>	<u>Accuracy (\pm)</u>
<u>32.16g</u> known unknown	32.1	6	$[32.1\underline{6}]$ $\pm \underline{00.01} \parallel \underline{\pm 0.01}$ remove extra zero

<u>Measure</u>	<u>known</u>	<u>unknown</u>	<u>Accuracy (\pm)</u>
<u>91263m</u> known unknown	9126	3	91263 ± 00001 ± 1 no decimal = ± 1

Assignment 0F – Accuracy and Precision in Lab

Complete the following questions based on the in class discussion and presentation

Measured Values (Experimental)	Correct Value (Known)	Accuracy (Accurate/Not Accurate)	Precision (Precise/Not Precise)
34.6g, 34.5g, 34.7g, 34.6g	34.6g	accurate	precise
31.5g, 36.2g, 34.7g, 33.2g	34.6g	34.7 accurate Rest not accurate	not precise
23.5g, 23.4g, 23.6g, 23.3g	34.6g	not accurate	precise
12.3g, 100.4g, 150.3g, 1.5g	34.6g	not accurate	not precise