

## **Uncertainty:**

when we record data we are aware that more measurements might not be the same.

Uncertainty of a tool

Half the smallest increment on the measuring device.

Can only have one significant digit (ignore zeros)

$$32 \rightarrow 3 \qquad 25 \rightarrow 3$$

$$27 \rightarrow 30 \qquad 25 \rightarrow 3$$

Uncertainty of Averages: 423, 487, 461

1. Calculate the average

- 2. Find the Range: May -Min = 487 423 = 64
- 3. Divide the range by 2: 64 32
- 4. Round the uncertainty to 1 significant digit:

5. Match the decimal place of your average to that of the uncertainty: