Measurement, Precision, Accuracy and Error..

Measurement

Why do it? What is it important? Units...

Observation

- Direct
 You do it
 5 senses
 Indirect
 - You do it with help

From equipment

Precision

Is your data repeatable?If it is – you are precise!



How close are you to the "right" or "exact" answer? If you are – you are accurate!

Archery!







Accuracy comes from? Precision comes from?



What are they? What causes them?

Systemic Errors

Errors with the "system".

- Calibration
- Observation
- can be controlled or minimized

Random Errors

There are Random!!! Unpredictable Cannot be controlled or fixed