

PRECISION VS ACCURACY



NAME _____

DATE _____

HOUR _____

Understanding the difference between precision and accuracy is important because they are both aspects of _____ that affect the quality and _____ of _____.

PRECISION

Precision refers to how close multiple _____ of the same _____ are to each other.

- _____ of measurements or _____ to each other, even if they're _____ close to the true value.
- Precision relates to _____

Examples:

- A marksman shooting at a target consistently hits the same spot, but its _____ the bullseye.
- A laboratory balance consistently gives the same weight reading for an object, but it's consistently _____ by 0.1 grams.
- A clock that always shows the same time, but it's _____ the correct time.

ACCURACY

Accuracy, on the other hand, refers to how close a _____ is to the _____ or _____ value.

Examples:

- A marksman shooting at a target _____ the bullseye _____ time.
- A GPS device gives your _____ location as per the coordinates on a map.
- A thermometer measures the temperature as 25°C.

In many cases, you may want both precision and accuracy to be high, but they are not always the same thing.

For example, you could have a set of measurements that are consistently clustered around a value (_____), but that value might be far from the actual target value (_____).