

## What is the difference between accuracy and precision?

*Education in Chemistry*

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[rsc.li/2JaSamI](http://rsc.li/2JaSamI)

A result or measurement is accurate if it is close to the true value. A precise result is one where the data points are close together (but there can be a random error). It is therefore possible to have a precise measurement that is not accurate.



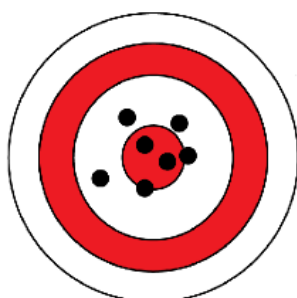
**LOW accuracy**

**LOW precision**



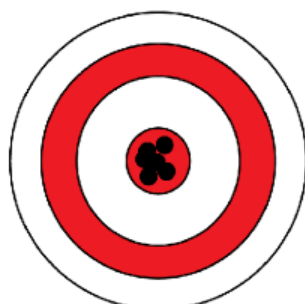
**LOW accuracy**

**HIGH precision**



**HIGH accuracy**

**LOW precision**



**HIGH accuracy**

**HIGH precision**