# What is the difference between accuracy and precision?

***Education in Chemistry***June 2018
[rsc.li/2JaSamI](https://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.

|  |  |
| --- | --- |
| \\rsc\userdata\ProfilesUE\framer\Desktop\low accuracy low precision.jpg | LOW accuracyLOW precision |
|  | LOW accuracyHIGH precision |
|  | HIGH accuracyLOW precision |
|  | HIGH accuracyHIGH precision |