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Every measurement is subject to some uncertainty. A measurement result is only complete if it is accompanied by a statement of the uncertainty in the measurement. Measurement uncertainties can come from the measuring instrument, from the item being

The range of values associated with a measurement is described by the uncertainty. The uncertainty is a number which follows the \pm sign. For example, in the measurement (8 ± 2) , 8 is the value, and 2 is the uncertainty. Since all of science depends on measurements, it is important to understand uncertainties and get used to using them.

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