- Notes:
- http://www.usca.edu/chemistry/genchem/sigfig.h tm
-http://www.purplemath.com/modules/rounding2 .htm
- Practice:
- http://www.chem4free.info/calculators/signdig.ht m


## What are significant digits?



## Significant Figures

- Digits that carry meaning contributing to its precision.


## All Numbers Except

- All leading zeros;
- Trailing zeros when they are merely placeholders to indicate the scale of the number; and
- Digits that cause a solution to have a greater precision than the equipment supports.


## Rules

- All non-zero digits are considered significant.
- For example:
- 91 has two significant figures
- 123.45 has five significant figures


## Rules

- Zeros appearing anywhere between two non-zero digits are significant.
- For example:
- 101.1203 has seven significant figures


## Rules

- Leading zeros are not significant.
- For example:
- 0.00052 has two significant figures


## Rules

- The significance of trailing zeros in a number not containing a decimal point can be ambiguous.
- A decimal point may be placed after the number.
- For example:
- "100." has three significant figures

