## Chemistry ~ SIG DIGS

Rules for determining significant digits

1) Zeros appearing between nonzero digits are significant (sandwich rule). 2002
2) Zeros appearing in front of nonzero digits are not significant.0.000172
3) Zeros at the end of the number and to the right of the decimal are significant. 5.00
4) Zeros at the end of the number but to the left of a decimal are NOT significant unless the decimali s shown. 300300.

## Addition/subtraction with Sig Digs

Answer must have the same number of digits to the right of the decimal as in the least significant measurement. <Decimal> Multiplication/Division with Sig Digs
Answer must have the same number of significant digits as the measurement with the fewest number of significant digits. <Fewest number of sig digs>
(SIG DIGS)

1) Sandwich rule
$2 \underline{002}$
2) Leading zeroes do NOT count
0.000172
3) Trailing zeroes DO count $5 . \underline{00}$
4) Whole number, count the zeroes IF the decimal is shown
300
(1)
but $3 \underline{00}$.
