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 decimal is shown. 300 300.

Addition/subtraction with Sig Digs

Answer must have the same number of digits to the <u>right of the decimal</u> 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 <u>00</u> 2		(4)	
2)	Leading zeroes do NOT count		0.000172		(3)	
3)	Trailing zeroes DO count			5. <u>00</u>		(3)
4)	Whole number, count the zeroes IF th 300 (1) but 300				al is shown	(3)

Go VIKINGS!