

### Sig Fig Rules

To determine the number of significant figures in a number use the following 3 rules:

1. Non-zero digits are always significant
2. Any zeros between two significant digits are significant

Example: .500 or .632000 the zeros are significant .006 or .000968 the zeros are NOT significant

For addition and subtraction use the following rules:

1. Count the number of significant figures in the decimal portion ONLY of each number in the problem
2. Add or subtract in the normal fashion
3. Your final answer may have no more significant figures to the right of the decimal than the LEAST number of significant figures in any number in the problem.

For multiplication and division use the following rule:

1. The LEAST number of significant figures in any number of the problem determines the number of significant figures in the answer. (You are now looking at the entire number, not just the decimal portion) This means you have to be able to recognize significant figures in order to use this rule

Example: 5.26 has 3 significant figures -> 6.1 has 2 significant figures

### Method for conversions

#unit1 x #unit  
(converting to)  
/ #unit1

cancel like      giga      10<sup>9</sup>  
units

then multiply      mega      10<sup>6</sup>  
and divide then  
you get your  
answer with  
new units

kilo      10<sup>3</sup>

centi

milli

micro

nano

pico



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