

# APES Math Review

The APES Examination will require you to do mathematical calculations. Occasionally these calculations may be somewhat esoteric, and you may find it possible to do them in your head; nonetheless, it is mandatory to show all work for all calculations on the free-response section of the APES exam. This worksheet is designed to help prepare you for the type of calculations you may encounter on this year's APES exam.

For each problem show every step of your work, and indicate the cancellation of all units.

## Scientific Notation

All APES students should be able to work comfortably with numbers in scientific notation. Place the following numbers into scientific notation.

1. one billion  $1 \times 10^9$
2. 70 trillion  $7 \times 10^{13}$
3. 0.00025  $2.5 \times 10^{-4}$
4. twenty three thousand  $2.3 \times 10^4$
5. three hundred  $3 \times 10^2$
6. 7,310,000  $7.31 \times 10^6$

Perform the following calculations in scientific notation.

7.  $1.3 \times 10^2$  divided by  $3.6 \times 10^2$   
 $0.36111111 \times 10^0$
8.  $\frac{5.8 \times 10^{22}}{1.2 \times 10^{22}}$
9.  $1.11 \times 10^{-9} (6.0 \times 10^9) = 6.66 \times 10^0$

## Metric Conversions

All APES students should be comfortable converting between common metric prefixes. Below are common prefixes, and the number of base units each represents. For example, 1 teraWatt =  $10^6$  Watts; 1 millimeter =  $10^3$  meters

n = nano =  $10^9$

μ = micro =  $10^6$

m = milli =  $10^3$

# Apes Math Review Notes And Problems Significant

**LP Steffe**



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