

# 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 =  $10^{12}$  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

**SA Dillow**



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tunnel and we would be able to understand what humans do have that is special if anything to explain our success in the Earth **The Yale Alumni Weekly** ,1908 From Apes to Angels Phillip V. Tobias,1990-11-21 A tribute to the renowned anthropologist Phillip V Tobias on the occasion of his retirement from the Chairmanship of the Department of Anatomy and Human Biology University of the Witwatersrand Johannesburg It contains 24 essays by 26 authors on such topics as cultural anthropology genetics pathology paleoanthropology and human biology The authors a majority of whom are internationally recognized in their fields contribute up to date and authoritative reviews on material illustrating the diversity of Dr Tobias interests Includes extensive bibliographies on topics covered Educational Resources for Microcomputers ,1984 *Children's Technology Review* ,2005 **Best Life** ,2008-04 Best Life magazine empowers men to continually improve their physical emotional and financial well being to better enjoy the most rewarding years of their life Yale Alumni Weekly ,1907 *Index de Périodiques Canadiens* ,2002 *Current Index to Journals in Education* ,2000-04 **Science** John Michels (Journalist),2006 Since Jan 1901 the official proceedings and most of the papers of the American Association for the Advancement of Science have been included in Science **Books Out-of-print** ,1986 New York Times Saturday Review of Books and Art ,1968 Presents extended reviews of noteworthy books short reviews essays and articles on topics and trends in publishing literature culture and the arts Includes lists of best sellers hardcover and paperback **The New York Times Saturday Review of Books and Art** ,1968 *The New York Times Index* ,1979

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