

APES Mathematics Review

The APES Examination will require you to do mathematical calculations. It is mandatory to show all work for all calculations on the free-response section of the APES exam.

Use a separate piece of paper, show every step of your work, and cancel all units. No Calculators!!

Scientific Notation — All APES students should be able to work comfortably with numbers in scientific notation

Place the following numbers into scientific notation.

- one billion
- twenty three thousand
- 70 trillion

Do the following calculations in scientific notation.

- five hundred billion times thirty five thousand
- six thousand divided by 300 billion
- one ten thousandth of three million

Unit conversions — All APES students should be able to convert from one system of units to another.

➤ Given: 1 square mile = 640 acres, 1 hectare = 2.5 acre, 1 km = .6 mi

- A 100 square mile area of national forest is how many acres? How many hectares?
- If a tectonic plate moved 25 km in a million years, how cm does it move each year?
- The speed limit is 50 km/hr but your speedometer only reads in mph. How fast can you legally travel in mph?

Percentages — All APES students should be able to work comfortably with percentages. $\%Change = \frac{Final - Initial}{Initial} \times 100$

- A natural gas power plant is 60% efficient. If one cubic meter of natural gas provides 1000 BTUs of electricity. How many BTUs of waste heat were produced?
- If 35% of a natural area is to be developed, leaving 500 acres untouched, how many acres are to be developed?
- If the concentration of mercury in a water supply changes from 65 ppm to 7 ppm in a ten-year period, what is the percentage change of the mercury concentration?

Energy — The APES exam always has questions about energy use. Be prepared!

➤ Given: 1 barrel of oil = 150 L, 1 kWh = 3,400 BTU

- A city that uses ten billion BTUs of energy each month is using how many kilowatt-hours of energy?
- If a barrel of crude oil provides six million BTUs of energy, how many BTUs of energy in one liter of crude oil?
- For crude oil, if 150 pounds of CO₂ is released per million BTUs of energy, how much CO₂ is produced by each barrel of crude oil? (use information from the previous problem)

Population — The APES exam always has questions about population. Be prepared!

- Calculate the percentage growth rate for a country with a population of 6 million: in a year in which it had 100,000 births, 70,000 deaths, 30,000 immigrants, and 50,000 emigrants.
- If a town's growth rate is 1% and the population size is 10,000, how long until the population grows to 40,000?
- If it took a country 40 years to double its population, what was its growth rate?

Half-life — All APES students should be able to work comfortably with half-life.

Half-lives elapsed	0	1	2	3	4	5	6	7	8	9	10
Fraction remaining	1/1	1/2	1/4	1/8	1/16	1/32	1/64	1/128	1/256	1/512	1/1024
Percentage remaining	100%	50%	25%	12.5%	6.25%	3.12%	1.56%	0.78%	0.39%	0.2%	0.1%

- Radium has a half-life of 1500 years. How long will it take for 250kg of Radium to decay down to less than 10kg?
- The half-life of Pa-234 is 6.75 hr. How much of a sample of this isotope remains after 20.25 hr?
- Plutonium-239 has a half life of 24,000 years and is considered safe only when its radioactivity has dropped to 1% of the original level. Approximately how long must the Pu-239 be stored securely to be considered safe?

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Table of Contents Answers For Apes

1. Understanding the eBook Answers For Apes
 - The Rise of Digital Reading Answers For Apes
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Apes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers For Apes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Apes
 - Personalized Recommendations
 - Answers For Apes User Reviews and Ratings
 - Answers For Apes and Bestseller Lists
5. Accessing Answers For Apes Free and Paid eBooks
 - Answers For Apes Public Domain eBooks
 - Answers For Apes eBook Subscription Services

- Answers For Apes Budget-Friendly Options
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 - Answers For Apes Compatibility with Devices
 - Answers For Apes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Apes
 - Highlighting and Note-Taking Answers For Apes
 - Interactive Elements Answers For Apes
- 8. Staying Engaged with Answers For Apes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Apes
- 9. Balancing eBooks and Physical Books Answers For Apes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Apes
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answers For Apes
 - Setting Reading Goals Answers For Apes
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers For Apes
 - Fact-Checking eBook Content of Answers For Apes
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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