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## Ap environmental science math prep answers

CED/Mathematics/Science Practice/Students It's a practical challenge to prepare for math on the AP® Environmental Science Exam. For basic mathematical information and formulas, read What students should know about math for the AP Environmental Science Exam Read Last Minute tips and tips for APES EXAM for exam advice. If you're stuck with some problems, watch the math help video. They: Scientific notation Place the following numbers in scientific notation. A thousand1 million1 trillion twenty-three thousand256 thousand make the following calculations in scientific notation 7.  $(2.96 \times 10^7) \text{ th } (1.0 \times 10^8)$  8. Five hundred billion times thirty-five thousand 9. six thousand are divided into 300 billion 10. one ten-thousandth out of three million metric conversions remembers these conversions 9. 1200 watts and kW (kilowatt) 10. 1200 kW and MW (megawatts) 11. 500 km and meter 12. 60 grams and milligrams 13. 14,000 milliliters and a liter of interest and percentage change 14. The natural gas power plant is 60% efficient. If one cubic meter of natural gas provides 1200 BTUs of electricity. How much BTUs heat waste has been produced? 15. If 35% of the natural area develops, leaving 520 acres untouched, how many acres should be developed? Percentage change: You have to remember this formula: End-Start/Start. The AP exam® won't give you a formula. 16. If the cyanide in the flow next to the gold mine increases from 240 ppm to 360 ppm, what is this percentage increase? 17. SO2 emissions from the coal-fired power plant amount to 400 tons in 2010 and 288 tons in 2017. What is this percentage reduction? How much interest is reduced on average per year? Mathematics of the population You need to remember the formulas of the population's mathematics. 18. Calculate the percentage growth rate in a country of 5 million people with 100,000 births, 70,000 deaths, 30,000 immigrants and 50,000 emigrants. 19. If the country's growth rate is 1 per cent, how many years will it take for the population to double? (Use rule 70) 20. If the city's population doubles in 20 years, what is the growth rate? 21. Will it be a country in Subsahar or in Europe? 22. In a city of 20,000 people, the growth rate was 7 per cent. How many years will it take to reach 60,000? (Hint: use rule 70) Conversion of metric areas - Don't forget to exit the area by simplifying, and then convert and multiply. 23. Conversion 5 km<sup>2</sup> to m<sup>2</sup> 24. Calculate the area in the table, which is 2m<sup>2</sup> 25. The parking lot of the shopping center is 200 meters long and 100 meters wide. How much is it km<sup>2</sup>? Half-life calculations 26. The radioactive waste sample has a half-exposimm period of 10 years and a level of activity of 2 curies. In how many years will the activity rate of this sample be 0.25 curie? 27. 64 grams of the german-66 sample remains untouched for 12.5 hours. At the end of this period, only 2.0g remain. What is the half-life of this material? You have to remember this. GPP-Breath-NPP 28. Gross primary productivity of the ecosystem is 3.5 kgC/m<sup>2</sup>/year, and the energy needed by producers for their own breathing is 3.0 kgC/m<sup>2</sup>/year. What is the net primary productivity of such an ecosystem? 29. The net annual primary productivity of a particular wetland ecosystem is 2,000 kcal/m<sup>2</sup>. If the breath of water producers is 18,000 kcal/m<sup>2</sup> per year, what is the gross annual primary productivity of this ecosystem per kcal/m<sup>2</sup> per year? Energy flow in Lake Fremont (kcal/m<sup>2</sup>/year) Energy flow for Green Springs (kcal/m<sup>2</sup>/yr). Trophic Energy Is Available (kcal/m<sup>2</sup>/yr)Producers9000Pripriy consumers (herbivores)1800This users (carnivorous)120Terthar users (top carnivores)12 32. Based on the table above, calculate the efficiency of energy transmission (percentage) of: (a) Manufacturers to major consumers b) Secondary consumers of tertiary consumers LD-50 Calculations 33. LD50 for acetaminophen is 2404 mg/kg (rat, oral). A. How many milligrams of acetaminophen will LD50 for 60 kg (132 lbs) adults? B. How many 500 mg of acetaminophen tablets would be a lethal dose for half of 60 kg adults? (Think about it, should you round up or down?) 34. LD50 for aspirin is 200 mg/kg (rat, oral). A. How many milligrams of aspirin will LD50 for a 10 kg (22 lb) baby? (This 1 year old kid) b. How many 500 mg of aspirin tablets would be a lethal dose for half 10 kg of children? 35. Use a graph to calculate LD50 for rats with cesium. What is the threshold on the chart? Make sure you study your notes, tutorial and/or book review. Some favorite op-ed books: Cartoon Guide to the Environment and as soon as possible and five steps to five. But many others are good as well (Barrons, and those textbook publishers). This is a well-used review of the book over the years of APES content review. A page from the book. - AP® is a trademark registered and/or owned by the College Board, which has not participated in the production and does not approve of this site. CED/Mathematics/Science Practice/Students It's a practical challenge to prepare for math on the AP® Environmental Science Exam. For basic mathematical information and formulas, read What students should know about math for the AP Environmental Science Exam Read Last Minute tips and tips for APES EXAM for exam advice. If you're stuck with some problems, watch the math help video. 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