

9. (This one is tough!) Perform the following calculation. Show all of your work. If the grasses on a 100-hectare area of grassland grow at an average rate of 1 cm/day, the average volume of grass that is added to the grassland each day is 10,000 m³. If the density of the grasses that grow in the grassland averages 400 kg/m³, the net primary productivity is approximately 36.2 + 1.8 g/m²/day or 400 billion g/m²/year.

Show work:

$$100 \text{ hect} = \frac{1000000 \text{ m}^2}{1000000} \times 0.1 \text{ m} = 100000 \text{ m}^3$$

$$10,000 \text{ m}^3 \times 400 \text{ kg/m}^3 = 4000000 \text{ kg}$$

$$4000000 \text{ kg} \times 365 = 1460000000 \text{ kg}$$

$$1460000000 \text{ kg} \div 365 = 4000000 \text{ kg/day}$$

10. The acronym GMO refers to genetically modified organism, which are:

organisms that have had their genes altered by humans in some way.

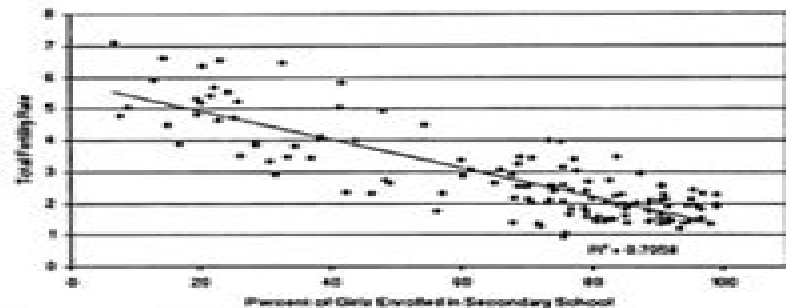
11. Strengthen this weak statement: "Protecting endangered species like the Giant Panda costs too much and should be stopped."

Expenses related to protection of endangered species include cost of public information campaign, payroll for park rangers/enforcement, + etc. It would be more economically savvy to use these funds for alternative projects like education, infrastructure, etc.

12. Consider the graph on the right and explain what can be inferred from the data it presents.

As the education level of women increases, they begin to have less children on average.

Female Secondary Education and Total Fertility Rates



13. The first National Park was Yellowstone National Park.

14. Match the ten most populous urban areas in the world with its respective continent:

a. Asia	<u>A</u>	Tokyo
b. N. America	<u>A</u>	Seoul
c. S. America	<u>B</u>	Mexico City
d. Africa	<u>B</u>	New York City
e. Australia	<u>A</u>	Mumbai
f. Europe	<u>A</u>	Jakarta
	<u>C</u>	Sao Paulo
	<u>A</u>	Delhi
	<u>A</u>	Osaka/Kobe
	<u>A</u>	Shanghai

> Point: Mostly Asia!

15. List three sources of methane that are amplified by human activities.

- 1) Natural animal digestion → Beef industry
- 2) BFF
- 3) Landfill gas

16. The box to the right contains a crude depiction of a mountain, use it to sketch and label the essential attributes of a rain shadow. Include labels for the direction of the prevailing winds and nearest ocean.



17. NO₂ is converted to N₂ and O₂ in a catalytic converter, which also converts CO to CO₂.

18. List causes of an urban heat island. (pg 355)

- 1) Buildings push air up, heats up
- 2) Buildings made of concrete/metal → hold heat
- 3) Less trees → transpiration cools area

19. Identify the characteristic process associated with each of the following.

Nitrification: Δ NH₃/NH₄⁺ → NO₂ + NO₃

Denitrification: Δ NH₃/NH₄⁺ → N₂ gas

Apes Review Worksheet 1 Answers

Victor M. Corman



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