

APES Review Worksheet #1

1. Use the axes to the right for the following:

- Draw and label a line that represents linear growth.
- Draw and label a line that represents exponential growth.

2. List the four most populated countries in the world.

(1) India (3) United States
(2) China (4) Indonesia

3. Define the term ecological footprint

The demand on resources that an individual puts on their environment such as land and water, and the amount of waste is required to be disposed

4. Write an equation for the rule of 70. $70 \div r (\text{growth rate}) = \text{doubling time}$

5. Perform the following calculations. (Show all of your work in a logical progression to the final answer.)

- A city has a population of 50,000 in 2012. If the population of the city grows at an annual rate of 2%, the year in which the population will reach 100,000 is 2047 and the year it will reach 200,000 is 2092.

Show work: $70/2 = 35 \text{ years} \rightarrow 2012 + 35 = 2047$ $2047 + 35 = 2092$

- A country's population was 12 million in 1990 and in 2012 it is 24 million. If the population grew at a constant rate, what percent rate of growth was 3.5%.

Show work: $70/r = 20 \text{ years}$

$$\frac{20}{2} = \frac{70}{r}$$

$$r = 3.5\%$$

6. Complete the following table by writing "high" or "low" in each box below.

Characteristic	More Economically Developed Countries (MEDCs)	Less Economically Developed Countries (LEDCs)
per capita GDP	high	low
degree of industrialization	high	low
infant mortality rate	low	high
per capita fossil fuel use	high	low
ecological footprint	high	low
greenhouse gas emissions	high	low
risk from heart disease	high	low
risk from infectious diseases	low	high

7. Identify three examples of renewable resources and three examples of nonrenewable resources.

Renewable: (1) wood (2) solar/biom (3) water
Nonrenewable: (1) oil (2) coal (3) natural gas

8. Define the following:

a. total fertility rate average number of children born to a person over their lifetime

b. replacement level fertility The average number of children a couple must have to replace themselves (usually around 2)

c. infant mortality rate The average number of children out of every 1,000 born each year who die before they turn 1

d. crude birth rate annual # of live births per 1,000 people in a population

e. crude death rate annual # of deaths per 1,000 people in a population

9. Describe the circumstances that will result in a Tragedy of the Commons.

Depletion of a potentially renewable resource due to people having free or unmanaged access to it will result in a Tragedy of the Commons.

10. Describe an example of a Tragedy of the Commons.

An example of a Tragedy of the Commons is overfishing in the open ocean when fishermen try to maximize their catch, they end up depleting fish populations beyond sustainable levels.



Apes Review Worksheet 1

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Gorilla Pathology and Health John E Cooper, Gordon Hull, 2016-12-21 Gorilla Pathology and Health With a Catalogue of Preserved Materials consists of two cross referenced parts The first the book itself is a review of pathological changes and tissue responses in gorillas Gorilla gorilla and G beringei with an emphasis on free living animals but also with reference to those in captivity The comparative aspects are discussed stressing the relevance of research to both gorillas and humans What makes the publication truly unique however is the second part a comprehensive descriptive catalogue of the location and nature of gorilla material in museums and scientific institutions throughout the world This is of great consequence because free living gorillas are strictly conserved with restricted access so the location of a wealth of preserved tissues and other material that has been collected

over the decades is a great benefit for research and study This book can and should be used to gain cardinal knowledge regarding the biology and pathology of this genus The combination of book and catalogue in this extensive compilation makes it an invaluable tool for all those concerned with the health welfare and conservation of gorillas one of our nearest living relatives Brings together studies data and clinical practice from difficult to access or obscure journals and NGO reports in different languages for all interested parties and practitioners Provides perspectives on existing research in gorilla pathology both for those studying conservation practices and those seeking an understanding of comparable diseases in humans Includes illustrative figures on gross and microscopic pathological changes museum specimens photos of field necropsy and techniques and examples of laboratory tests Features an extensive list of references and further reading in different languages Incorporates a comprehensive descriptive catalogue of gorilla material from around the world

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