

1. Scientists have spent many years studying the peppered moth, which is a species that has adapted its color from light to dark in reaction to environmental pollution. Create a line graph to represent the data from the table.

Number of Moths By Year (x100)

Kind of Moth	1800	1850	1875	1900	1925	1950	1975
light	100	97	90	85	21	10	7
dark	0	3	10	35	79	90	93

2. The effect of local population fluctuations in rapidly expanding suburbs may _____ schools, roads, and police and fire services.

3. The effect of movement of people between counties has _____ effect on total world population.

4. Density-independent factors are limiting factors whose effects are _____.

5. Density-dependent factors are limiting factors whose effects are _____.

6. Unrestricted populations of organisms experience _____ growth.

7. A population that grows until it reaches its carrying capacity usually has the shape of a _____.

8. In 1893, a one million acre area of the Grand Canyon National Forest Reserve was home to an estimated 3,000 Rocky Mountain mule deer. Cattle, sheep, and horses also roamed the reserve. In 1906, government hunters killed off hundreds of mountain lions, coyotes, and bobcats when the area was set aside as the Grand Canyon National Game Preserve. The number of Rocky Mountain mule deer rose to over 100,000 by 1923. What was the approximate density of the mule deer in 1923?

9. Suppose that in a certain area, mice are the main food source for wolves. Based on the graph, in which year would there be the most amount of competition among wolves for food?



10. Organisms that employ a strategy of slow reproduction usually require an environment that is _____.

11. During the winter, wolves hunt in packs to increase their chances of catching larger animals. What type of population distribution does this represent?

12. For a particular species, the carrying capacity is the maximum number of individual organisms that _____.

13. The picture shows the growth curve of a bacterial population. According to this information, the bacterial population doubles every —



14. Bacteria employ a(n) _____ reproductive strategy, a characteristic determined by their small size, rapid maturation, and short life span.

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Larry G. Sellers



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