

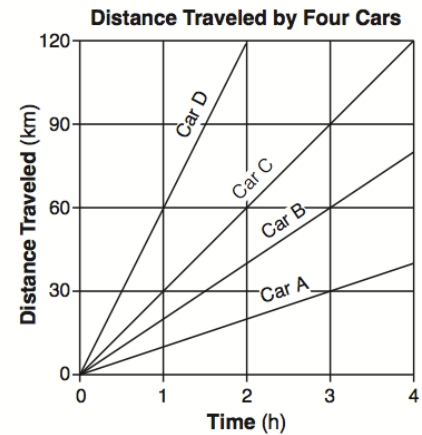
4. The graph below shows the distance traveled by four cars: **Car A**, **Car B**, **Car C** and **Car D**, over a period of time. Determine the average speed of each car.

a. Car A:

b. Car B:

c. Car C:

d. Car D:



e. Which car traveled the fastest?

5. A student pushes against a tree with a force of 10N. The tree does *not* move. What is the amount of force exerted by the tree on the student?

- a. 0N
- b. 5N
- c. 10N
- d. 20N

6. If the force used to push a shopping cart increases, the cart's acceleration will:

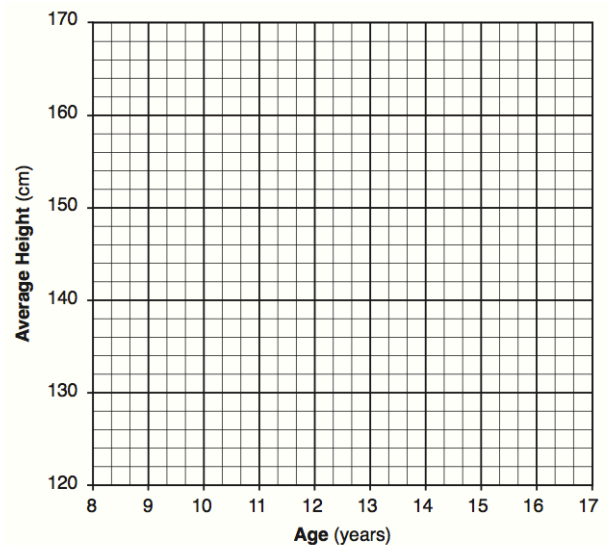
- a. Decrease
- b. Increase
- c. Remain the Same

7. Use the grid below to graph the average height of males and females over time.

Average Height and Average Mass of Students Age 8 to 16 in the United States in 1994

| Age (years) | Average Height (cm) | | Average Mass (kg) | |
|-------------|---------------------|------|-------------------|------|
| | Female | Male | Female | Male |
| 8 | 127 | 128 | 28 | 27 |
| 10 | 140 | 140 | 34 | 35 |
| 12 | 152 | 154 | 46 | 45 |
| 14 | 161 | 165 | 55 | 56 |
| 16 | 163 | 175 | 57 | 66 |

Source: www.halls.md/chart/child-growth.pediatric.htm



a. Provide a *claim* that explains the relationship between height and gender.

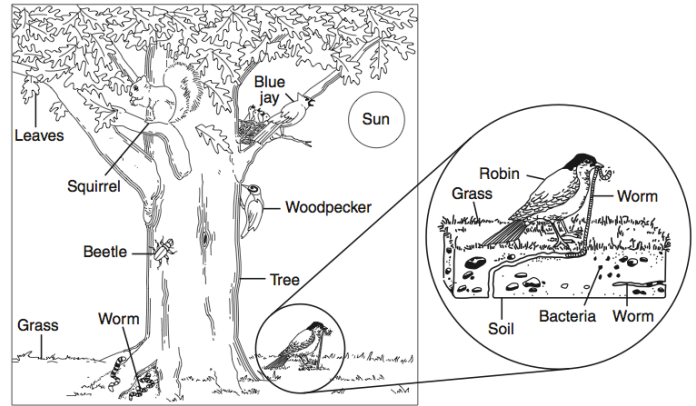
Name: _____

Life Science – Review

1. Which process does this diagram best represent?
 - a. Ecological Succession
 - b. Genetic Engineering
 - c. Natural Selection
 - d. Asexual Reproduction

2. Use the diagram to the right to answer the following questions:

- a. Identify the original source of energy for this ecosystem.
- b. Explain why bacteria in the soil are necessary in this ecosystem.
- c. Identify *one* predator-prey relationship shown in this diagram.



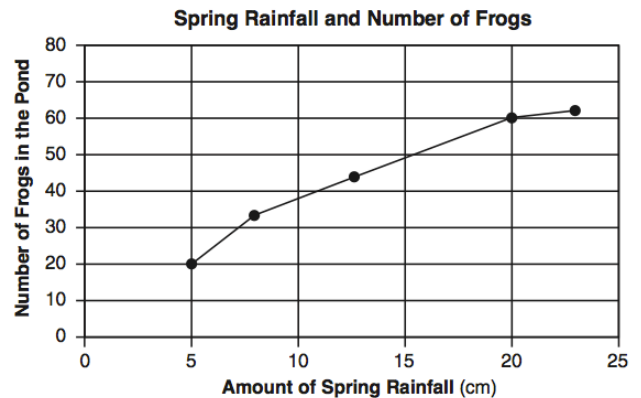
(Not drawn to scale)

Adapted from: Project Learning Tree:
Environmental Education Activity Guide pre K-8,
American Forest Foundation, Fifth Edition, 1997

3. Complete the table below by identifying the human organ system that performs each function listed.

| Function | Human Organ System |
|---|--------------------|
| <i>Controls and coordinates the body's responses</i> | |
| <i>Carries nutrients to the cells and waste away from the cells</i> | |
| <i>Turns large food molecules into smaller food molecules</i> | |
| <i>Supplies oxygen to the blood and body</i> | |

4. Explain the relationship between the number frogs in the pond and the amount of spring rainfall.



5. The diagram to the right shows a rabbit population over time.

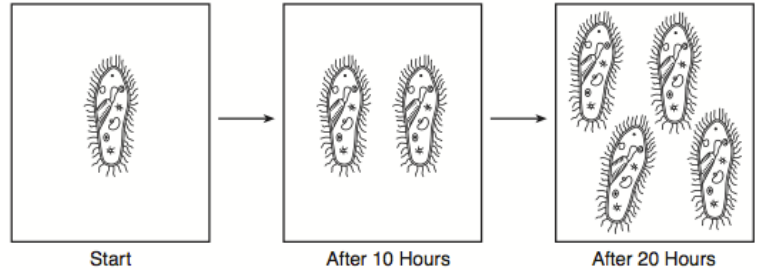


Which environmental factor may have contributed to the increase in their population?

- a. Decrease in Resources
 b. Decrease in Predators
 c. Increase in Disease
 d. Increase in Pollution
6. The diagram below shows a single-celled organism and its offspring that resulted from cell division over a period of 20 hours.

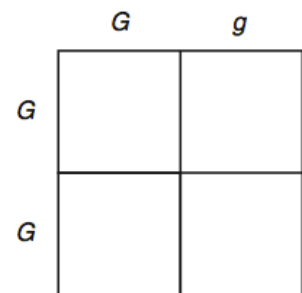
If the organisms continue to reproduce asexually at this same rate, how many organisms will there be after 30 hours?

- a. 6
 b. 7
 c. 8
 d. 9.16

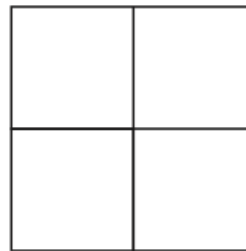


7. Two pea plants with green pods, Gg x GG, were crossed.

- a. Complete the Punnett Square below to show the results of the cross.
- b. What percentage of the offspring produced will have green pods?

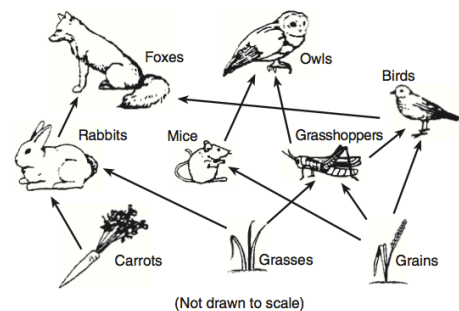


- c. Show the genetic makeup of two parent-pea plants that have all yellow pods.



8. The diagram to the right shows a food web for a community.

- a. Which organisms are:
- i. Carnivores
- ii. Herbivores
- iii. Omnivores



- b. Explain what would happen to the owl population if there was a drought, and the grain-plants were destroyed.