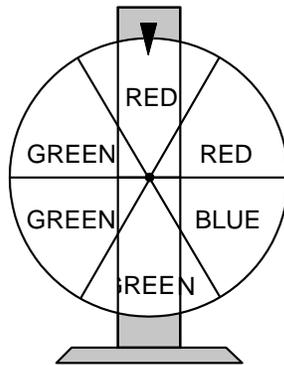


Use this space for
computations.

1 What is the positive square root of 49?

- (1) 4.9
- (2) 7
- (3) 24.5
- (4) 2,401

2 If the color wheel below is spun once, what is the probability that the blue section will stop at the top of the wheel?



- (1) $\frac{1}{6}$
- (2) $\frac{2}{3}$
- (3) $\frac{3}{6}$
- (4) $\frac{5}{6}$

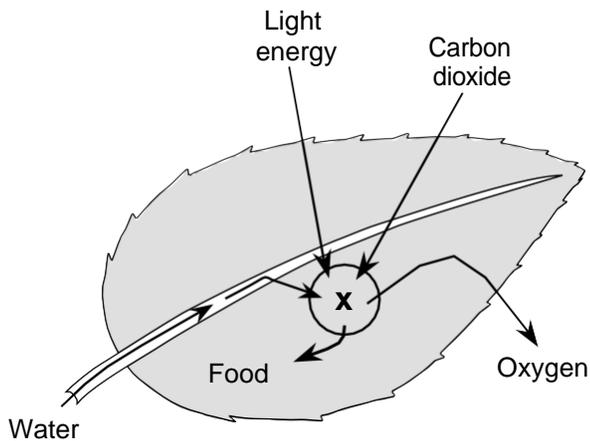
3 Solve for y : $\frac{7}{12} = \frac{y}{48}$

- (1) $1\frac{3}{4}$
- (2) 2
- (3) 28
- (4) 4

4 Which is the algebraic expression for 3 times a number, x , decreased by 6?

- (1) $x - 6$
- (2) $6 - 3x$
- (3) $\frac{3}{x} - 6$
- (4) $3x - 6$

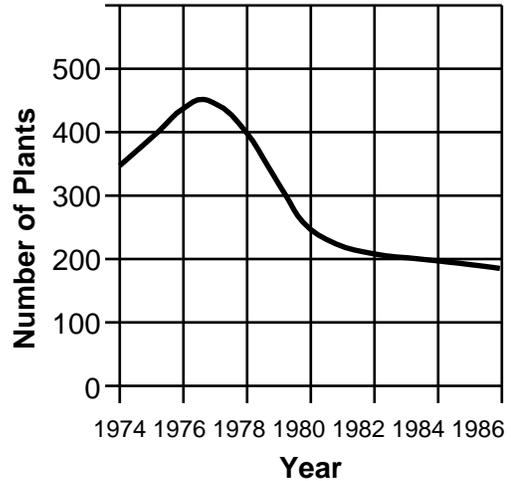
1 The X on the diagram below represents a life process in a leaf.



Which process does X represent?

- (1) respiration (3) circulation
 (2) photosynthesis (4) growth
- 2 A student studied how soaking sunflower seeds in different solutions affected their germination. Some of the seeds were soaked in a solution of vitamins and water for 2 days. Other seeds were soaked in a solution of fertilizer and water for 2 days. Then the seeds were planted in soil and observed.
- As a control group, the student also should have planted seeds that were
- (1) soaked in acid
 (2) split in half
 (3) exposed to radiation
 (4) soaked in plain water
- 3 People once believed that flies are directly produced by rotting meat. Today it is known that flies are produced by
- (1) cuts or wounds (3) any rotting food
 (2) the soil (4) other flies

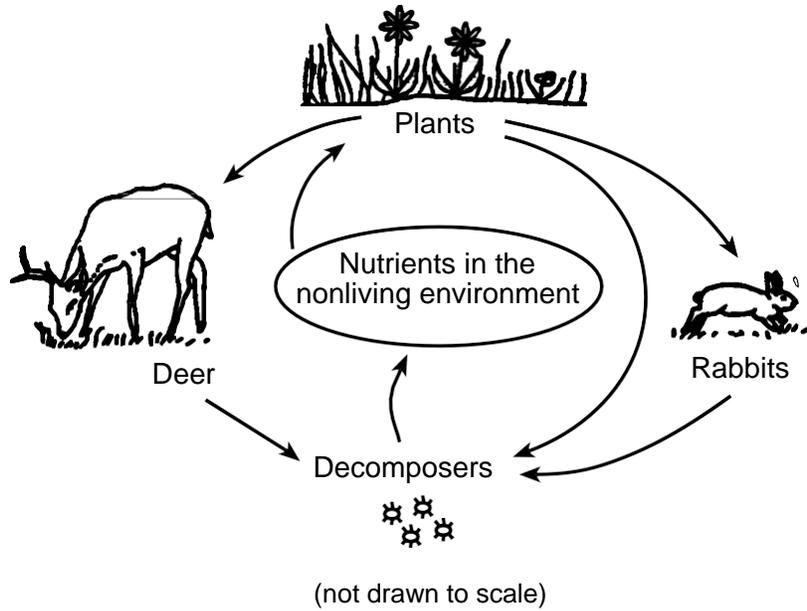
4 The graph below shows the changes in the number of plants present in an area over a period of 12 years.



During which time period did the number of plants in the area change the most?

- (1) 1978-1980 (3) 1982-1984
 (2) 1980-1982 (4) 1984-1986
- 5 Which phrase best completes the statement below?
- In the human body, the nervous system is to the coordination of body activities as the respiratory system is to the
- (1) digestion of food
 (2) exchange of gases
 (3) production of offspring
 (4) transportation of materials
- 6 Which organ removes wastes from the blood?
- (1) ovary (3) small intestine
 (2) heart (4) kidney

Base your answers to questions 7 and 8 on the diagram below.



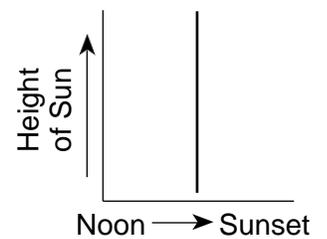
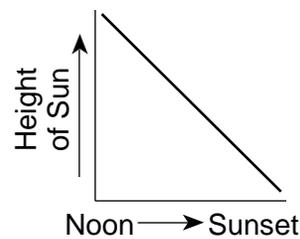
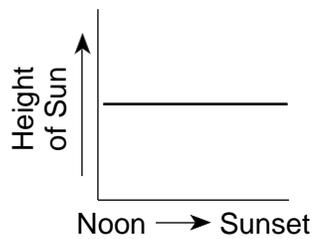
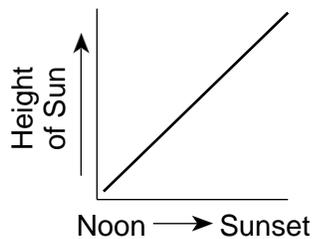
7 Nutrients from dead organisms are returned to the soil by

- (1) decomposers
- (2) deer
- (3) rabbits
- (4) plants

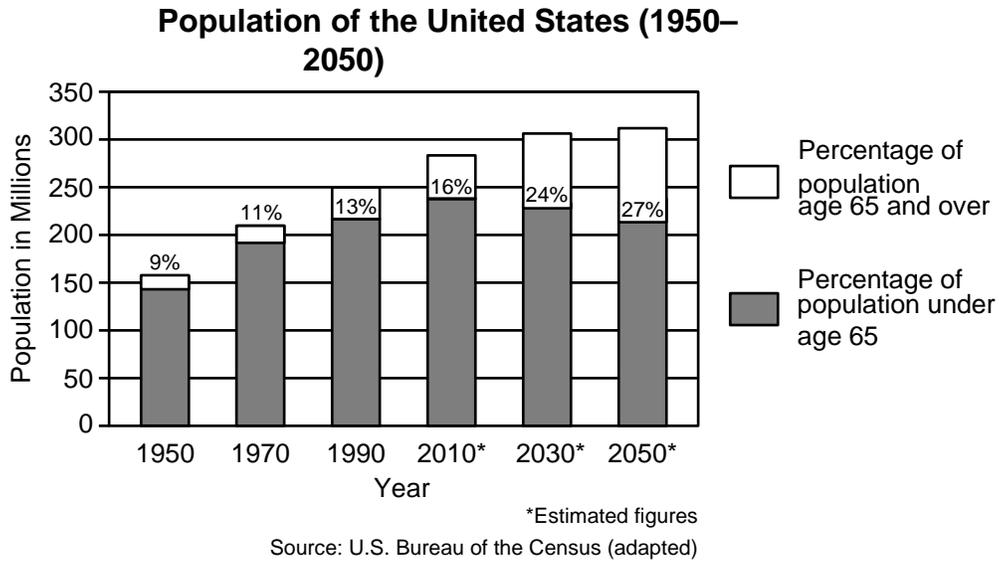
8 Which statement about living things is supported by the diagram?

- (1) Living things depend only on the nonliving environment.
- (2) Living things depend only on other living things.
- (3) Living things depend on each other and the nonliving environment.
- (4) Living things depend on neither the nonliving environment nor other living things.

9 Which graph best shows how the height of the Sun above the horizon changes from noon to sunset in New York State?



Base your answer to question 1 on the graph below and on your knowledge of social studies.



1 One result of the trend in the percentage of the population age 65 and over is that American society will need to provide more

- | | |
|------------------------------------|--------------------------------------|
| (1) jobs for young adults | (3) high school and college teachers |
| (2) day-care services for children | (4) care for the elderly |

2 **“Senate Rejects League of Nations”**
“Quotas To Restrict Number of Immigrants”
“Americans Fear Spread of Communism to USA”

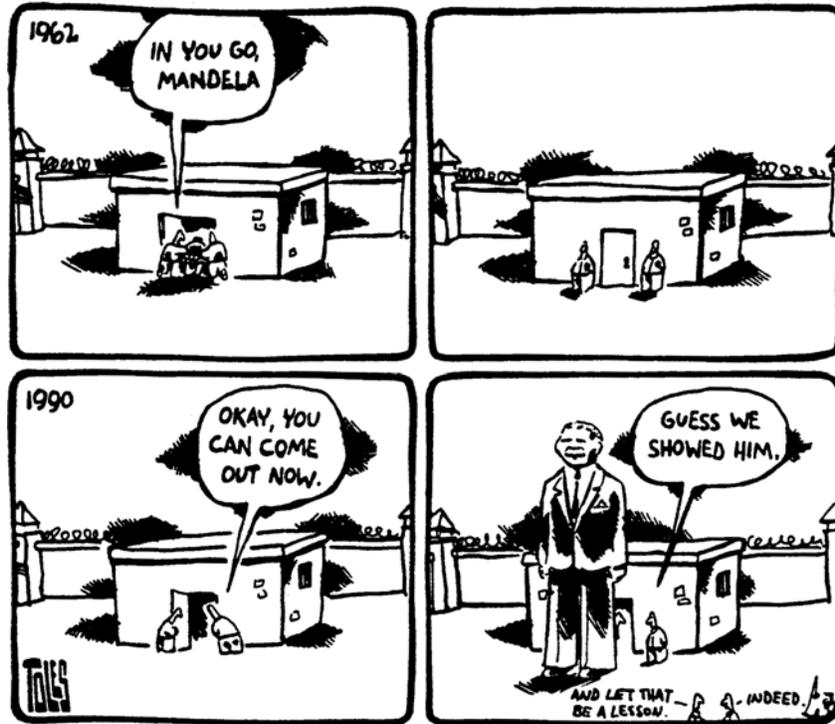
These headlines support the idea that after World War I, many Americans favored a foreign policy of

- (1) isolationism
- (2) global involvement
- (3) containment
- (4) overseas expansion

3 During both the Korean and Vietnam Wars, United States presidents followed a policy of

- (1) involving the United States in war without congressional declaration of war
- (2) allowing military commanders complete control over the wars
- (3) ignoring the wishes of the United Nations Security Council
- (4) using nuclear weapons to gain victory

Base your answers to questions 4 and 5 on the cartoon below and on your knowledge of social studies.



Source: Toles, *The Buffalo News*

4 The main idea of the cartoon is that Nelson Mandela's prison sentence

- (1) made him a more powerful leader
- (2) taught him the lesson the government wanted him to learn
- (3) caused his followers to forget about him
- (4) hurt him physically and mentally

5 The events referred to in the cartoon took place in

- | | |
|----------------------------------|------------------|
| (1) Kenya | (3) Libya |
| (2) the Republic of South Africa | (4) Saudi Arabia |

6 Oral tradition is important in African cultures because it

- (1) led to most Africans speaking the same language
- (2) proves that humans originated in East Africa
- (3) prevented the development of written language in Africa
- (4) allows knowledge to be passed from one generation to the next

7 In a traditional society, people grow only enough food to feed their own families. This situation is an example of

- (1) subsistence farming
- (2) the hacienda system
- (3) cash-crop agriculture
- (4) diversification