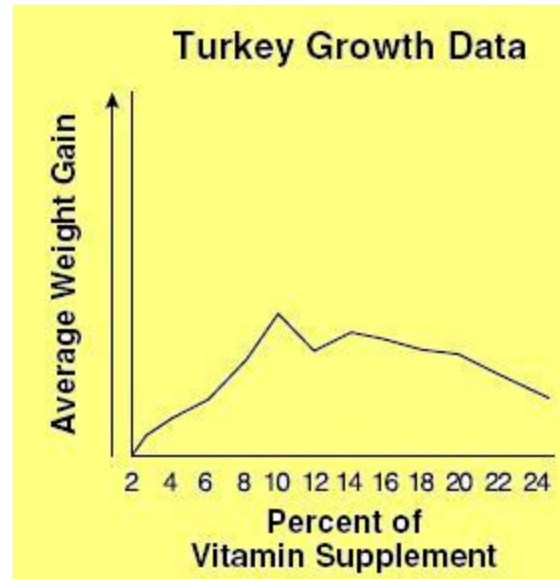
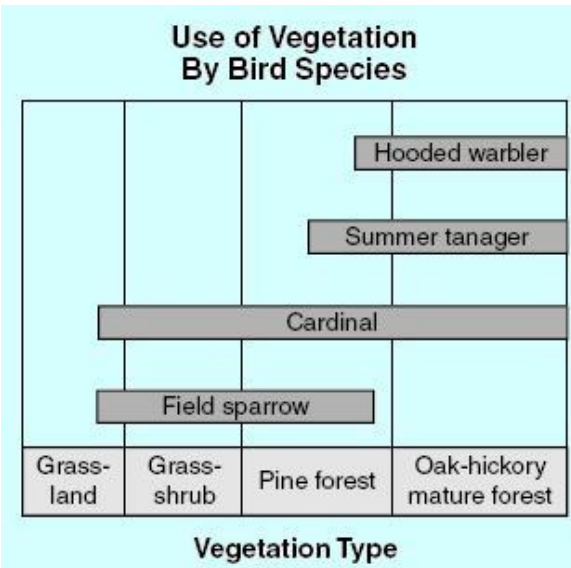


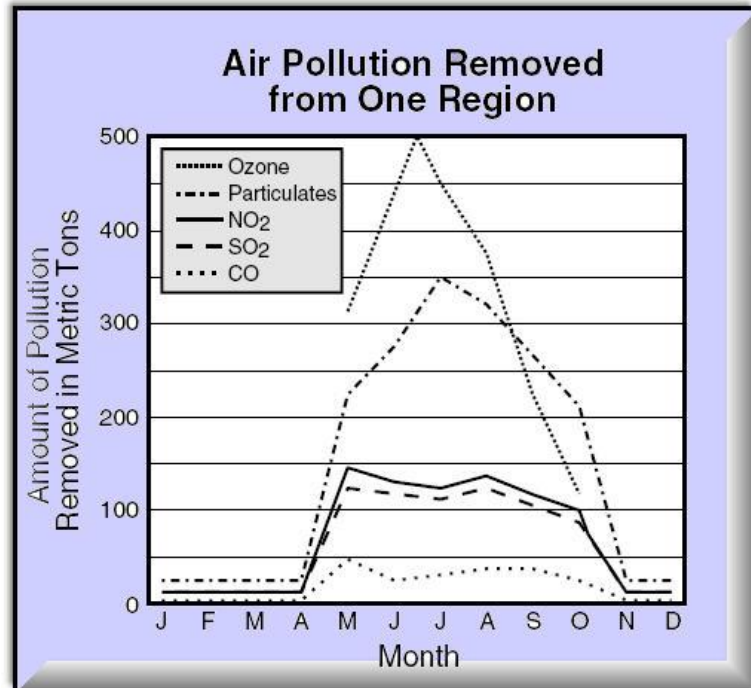
1. (2001-3) According to the graph, the highest metabolic rate is found in —
- reptiles
  - amphibians
  - mammals
  - birds



3. (2004-10) A study on a poultry farm was conducted to determine the percentage of vitamin supplement necessary to add to the feed of turkeys in order to maximize their growth. According to this data, what percentage of vitamin supplement should be added to the turkeys' diet?
- 6%
  - 8%
  - 10%
  - 14%

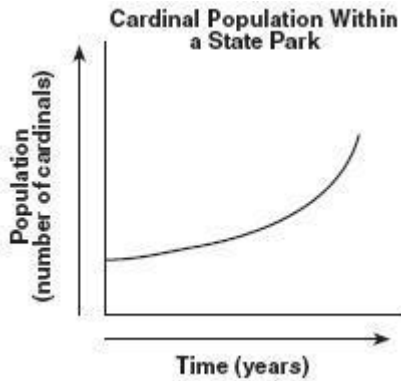


2. (2004-14) An experiment is designed to clear an oak-hickory forest and replant the area with pines. Which of the following species would be most threatened by this experiment?
- Cardinal
  - Hooded warbler
  - Field sparrow
  - Summer tanager

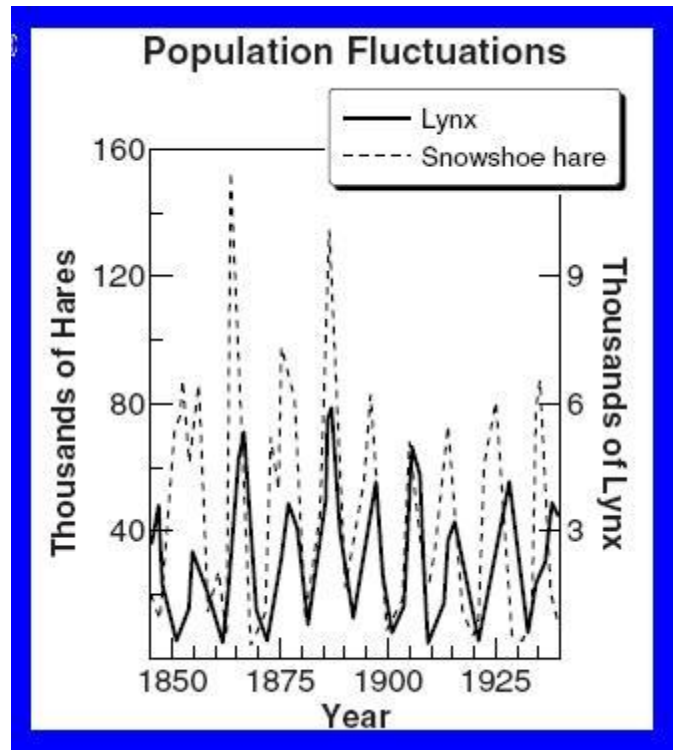


4. (2001-8) The graph shows the amount of pollutants removed by trees. During October, the trees were able to remove the greatest amount of —
- SO<sub>2</sub>
  - ozone
  - particulates

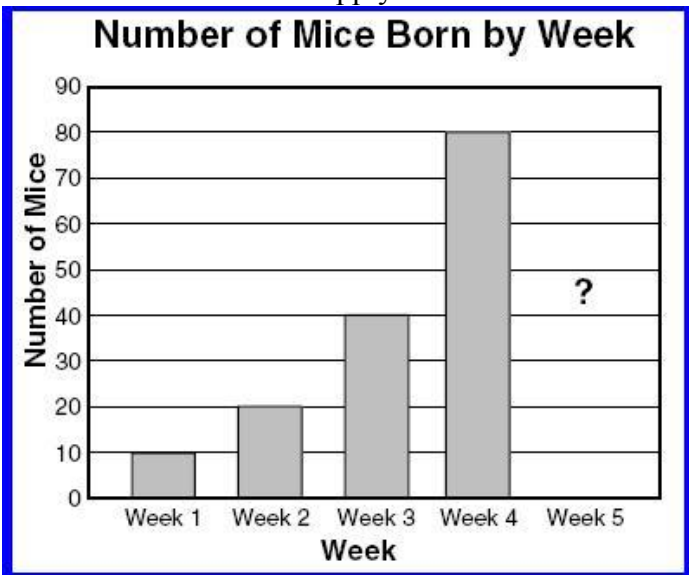
d. NO2



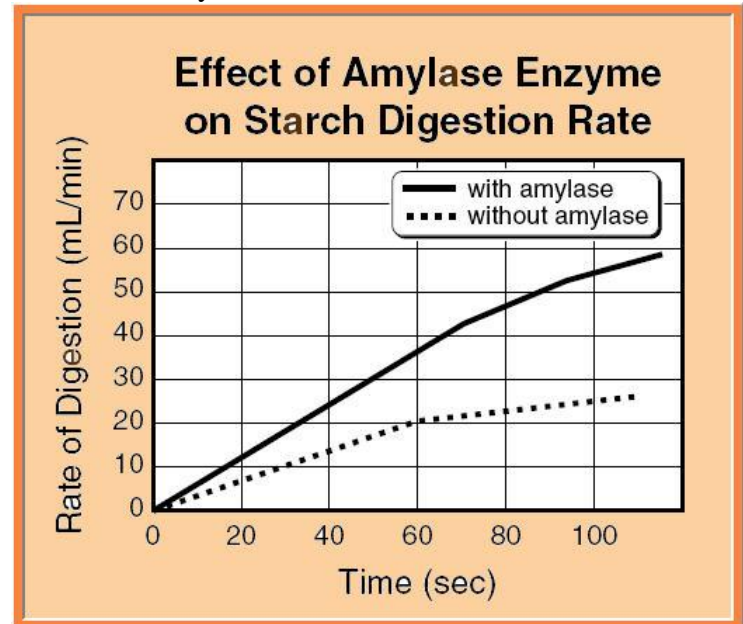
5. (2003-25) Which hypothesis is best supported by this graph?
- The population of cardinal predators increased.
  - Dominant cardinal chicks were the first to be fed.
  - A disease of cardinals spread throughout the park.
  - The cardinals' food supply increased.



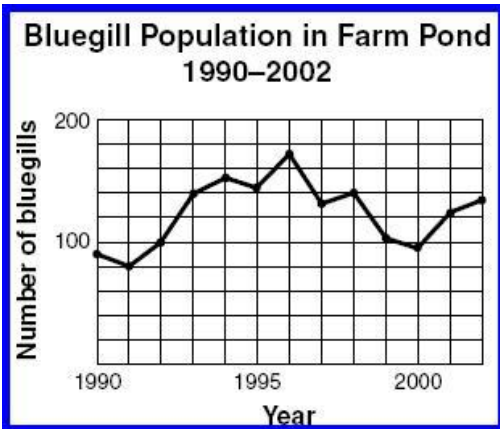
7. (2004-29) This graph shows the sizes of lynx and hare populations between the years of 1845 and 1940. If a predator of the lynx enters the food chain, you might expect the number of —
- lynx and hares to become equal
  - lynx to increase
  - hares to increase
  - hares and lynx to decrease



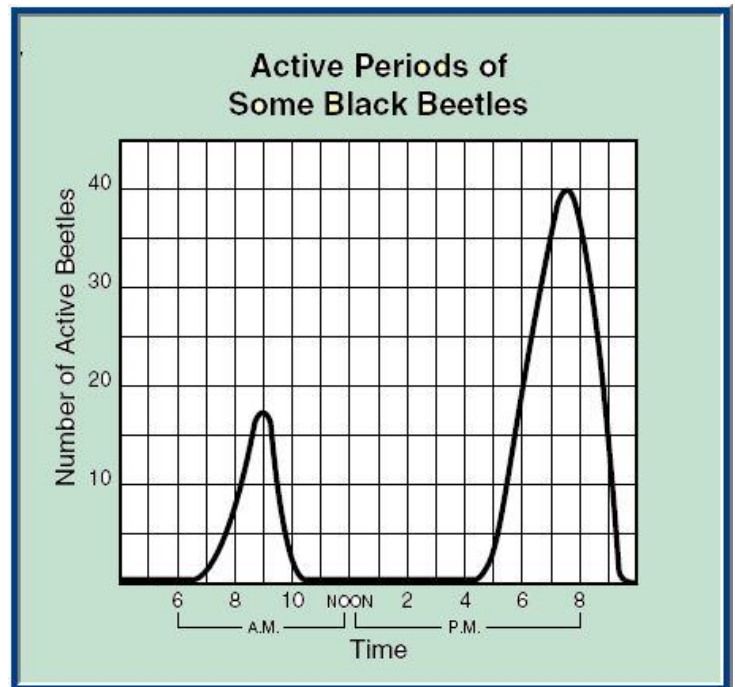
6. (2003-32) According to the graph, how many mice will be born in week 5 if the trend continues?
- 90
  - 100
  - 140
  - 160



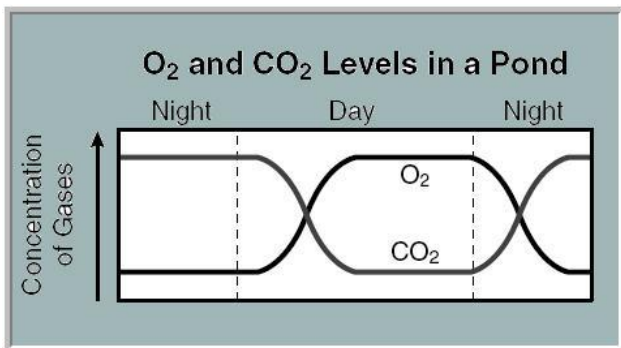
8. (2001-27) According to the graph, addition of the enzyme amylase causes the reaction to —
- speed up
  - give off heat
  - take in heat
  - slow down



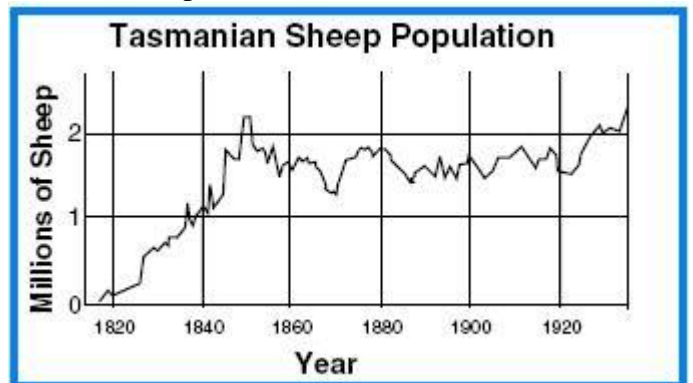
9. (2005-7) According to the data in the graph, during which time period did the overall bluegill population decline?
- 1996–1999
  - 1999–2002
  - 1990–1993
  - 1993–1996



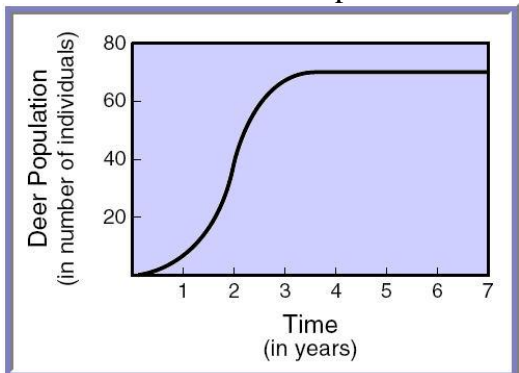
12. (2001-47) The hypothesis best supported by this graph is that these beetles are most active when the area is —
- richest in oxygen supplies
  - coolest with some sunlight
  - wettest from dew
  - free from predators



10. (2001-26) The graph shows how dissolved O<sub>2</sub> and CO<sub>2</sub> levels changed in a pond over a 24-hour period. What caused the decrease in O<sub>2</sub> concentration during the night?
- Increased evaporation
  - Decreased photosynthesis
  - Increased respiration
  - Decreased temperatures



13. (2005-37) This graph suggests that from 1840 to 1920, the carrying capacity for sheep in Tasmania was approximately —
- 0.75 million
  - 1.00 million
  - 1.75 million
  - 2.25 million



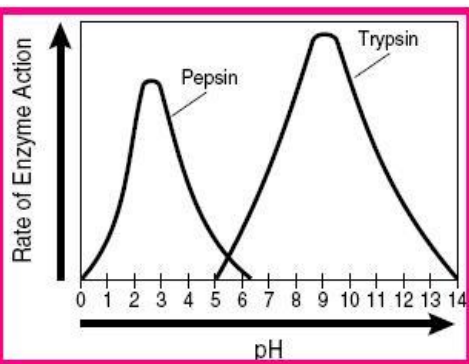
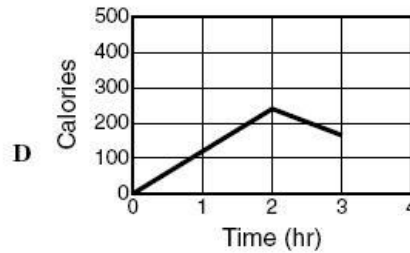
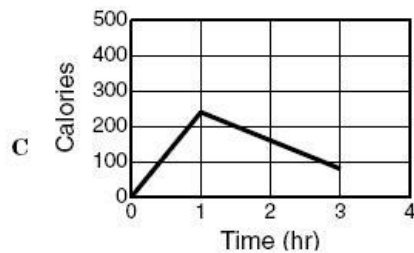
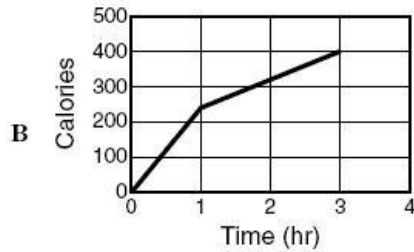
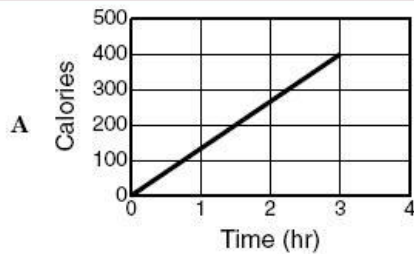
11. (2002-48) In the graph above, what is the population of deer at the carrying capacity of the environment?
- 30
  - 10
  - 50
  - 70

14. (2001-41)  
According to the table, which graph below illustrates the calories used for 1 hour of jogging followed by 2 hours of walking?

- a. A
- b. B
- c. C
- d. D

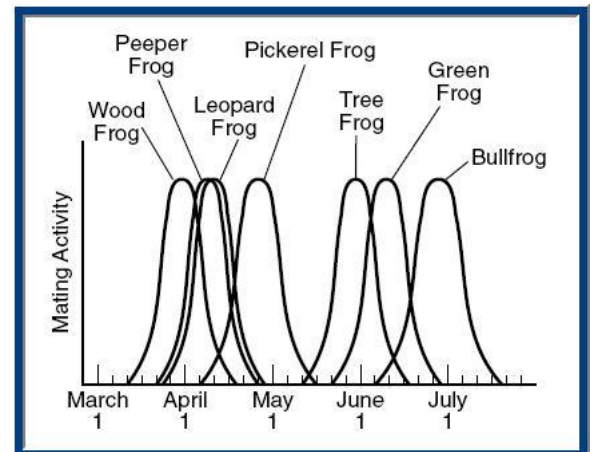
**Calorie Use Table  
(by 120 lb adult female)**

Activity	Calories Used (per hr)
Walking	80
Gymnastics	170
Jogging	240
Tennis	280
Bicycling	320
Swimming	440



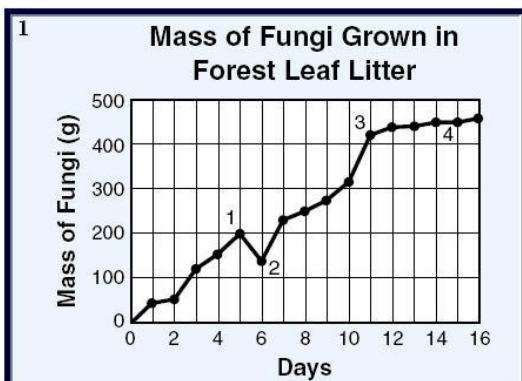
15. (2003-19)  
This graph shows that —

- a. more enzymes are present at a higher pH
- b. pH affects the activity rate of enzymes
- c. pepsin is less effective at low pH than trypsin
- d. pepsin is less sensitive to pH than trypsin



17. (2001-1) Which frog species would be most likely to interbreed?

- a. Bullfrog and green
- b. Tree and pickerel
- c. Peeper and leopard
- d. Wood and pickerel



16. (2006-1)  
Which data point on the graph is probably invalid?

- a. 1
- b. 2
- c. 3
- d. 4