

## Problem of the Day

Compared to the large number of plant species found in a forest ecosystem, which **best** explains why a desert ecosystem is unable to support a greater variety of plants?

- A. A desert ecosystem is located too high above sea level for most plants to grow.
- B. There are fewer animals in a desert, which decreases the need for large varieties of plants.
- C. There is not enough space available in a desert ecosystem for some plant varieties to grow.
- D. Most plants that live in a desert ecosystem must be able to conserve water for long periods of time.



# Problem of the Day

Which group of organisms make up the largest part of a food chain?

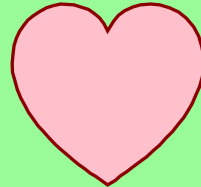
- A. decomposers
- B. consumers
- C. producers
- D. carnivores



# Problem of the Day

A rabbit eats a variety of plants in an ecosystem. Which **best** describes the effect a drought would have on both rabbits and plants in an ecosystem?

- A. both populations would increase
- B. both populations would decrease
- C. plant life would decrease and rabbit population would increase.
- D. plant life would increase and rabbit population would decrease.



# Problem of the Day

In which ecosystem would both algae and tadpoles most likely be found?

- A. pond
- B. ocean
- C. tide pool
- D. coral reef



# Problem of the Day

Which ecosystem is most similar to a grassland ecosystem?

- A. lake
- B. forest
- C. plain
- D. beach



# Problem of the Day

What is the primary source of energy in most ecosystems?

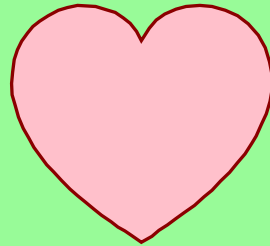
- A. water
- B. sun
- C. consumers
- D. producers



# Problem of the Day

Which of these organisms is considered a consumer?

- A. algae
- B. bird
- C. fungi
- D. tree



# Problem of the Day

Which best describes a producer?

- A. a plant that makes its own food
- B. an organism that gets its energy from plants
- C. the sun because it provides energy for plants
- D. an organism that gets its energy from animals





# Problem of the Day

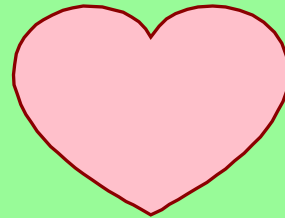
Which organism is a producer?

A frog

B mushroom

C grass

D lizard



# Problem of the Day

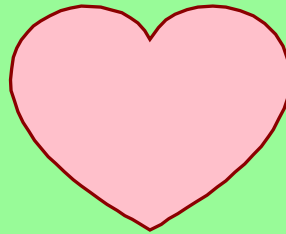
Which is most responsible for recycling dead plants and animals in an ecosystem?

A water

B bacteria

C fish

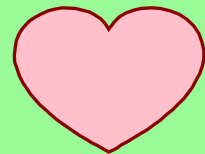
D insects



## Problem of the Day

How would the woodpecker population in a forest area most likely be affected if a housing development is built in that area?

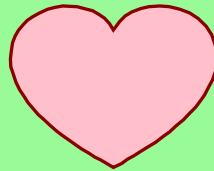
- A They would produce more offspring.
- B They would change the color of their feathers.
- C They would experience a decrease in available food.
- D They would experience a decrease in competition.



# Problem of the Day

Which organism would be affected first if the amount of light were reduced in an ecosystem?

- A. producer
- B. herbivore
- C. consumer
- D. carnivore



# Problem of the Day

Which is the most important reason endangered species should be protected?

- A. People pay a lot of money to visit zoos and see endangered animals.
- B. Protecting endangered species removes pollution from the environment.
- C. Endangered species are viewed as unique by the people in the community.
- D. When any endangered species dies it affects other animals within the ecosystem.



# Problem of the Day

Which ecosystem contains the largest mammals?

- A. ocean
- B. pond
- C. river
- D. swamp



# Problem of the Day

In a grassland ecosystem, if the population of eagles suddenly decreased, what will most likely be the effect on the rest of the ecosystem?

A The ecosystem will become overpopulated with snakes.

B There will be a decrease in the population of snakes in the ecosystem.

C The nutrition of the soil in the ecosystem will decrease.

D More types of plants will begin growing in the ecosystem.



# Problem of the Day

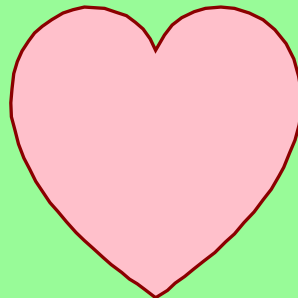
Which is an example of a decomposer?

A a hawk

B a mouse

C a flower

D a mushroom





# Problem of the Day

Which will most likely cause a decrease in predator populations?

- A an increase in prey populations
- B a decrease in prey populations
- C a decrease in decomposers
- D an increase in producer



## Problem of the Day

A simple food chain includes hawks, lizards, and insects. Which will most likely happen to the lizard and hawk populations if a pesticide is sprayed to kill the insects, and the lizard and hawk populations cannot find other food in this ecosystem?



- A Both the lizard population and the hawk population will increase.
- B Both the lizard population and the hawk population will decrease.
- C The lizard population will increase, but the hawk population will decrease.
- D The lizard population will decrease, but the hawk population will increase.

## Problem of the Day

In what ways do bushes benefit from bears eating their berries?

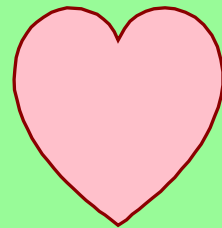
- A. Their seeds are spread around
- B. Other predators are scared away
- C. Nearby ground becomes compacted
- D. Their stems and branches are broken



# Problem of the Day

Which best describes the role of both mushrooms and worms in an ecosystem?

- A. They provide food for carnivores
- B. They provide food for herbivores
- C. They provide nutrients for the soil
- D. They provide nutrients during photosynthesis

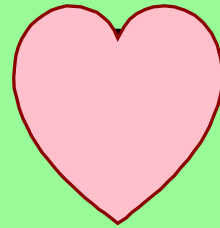


# Problem of the Day

What would happen if the snakes were taken out of this food chain?

clover → grasshopper → frog → snake → owl

- A. Clover would decrease
- B. Frogs would increase
- C. Grasshoppers would increase
- D. Owls would increase



# Problem of the Day

A zebra eats grass and then is eaten by a lion.

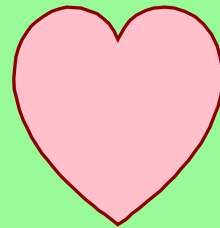
Which is the predator in this situation?

A. grass

B. lion

C. sun

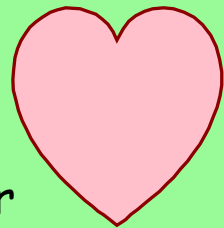
D. zebra



# Problem of the Day

What best describes what would happen if the wetlands were to dry up?

- A. Fewer amphibian and reptile eggs would develop
- B. Amphibian and reptiles would find another source of prey
- C. Amphibians and reptiles would lay eggs and develop on dry land



# Problem of the Day

What is the main difference between marine and freshwater ecosystems?

- A. the amount of animals
- B. the amount of plants
- C. the amount of rocks
- D. the amount of salt





# Problem of the Day

Which would be ***most beneficial*** to a snail in an aquarium ecosystem?

- A. small fish
- B. large rocks
- C. green algae
- D. aquatic insects



# Problem of the Day

1. **A brown bear eats a variety of foods including berries, insects, and small animals. Which best describes a brown bear?**
2. A. producer
3. B. herbivore
4. C. carnivore
5. D. omnivore



# Problem of the Day

In a food web, how are consumers most often described?

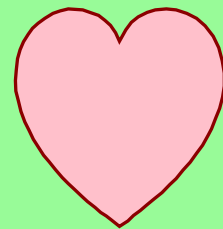
- A. by their size
- B. by their color
- C. by the food they eat
- D. by the way they move



# Problem of the Day

Which **best** explains the function of producers in a forest ecosystem?

- A. Producers provide energy for consumers in the ecosystem.
- B. Producers provide energy for decomposers in the ecosystem.
- C. Producers provide energy for other producers in the ecosystem.
- D. Producers provide energy for consumers and other producers in the ecosystem.



## Problem of the Day

Which **best** describes what makes one ecosystem different from another?

- A. the amount of sunlight, rainfall, temperature, and species types
- B. the amount of animals, oxygen, plant life, and pollution
- C. the amount of carbon dioxide, oxygen, water, and soil
- D. the amount of soil, water, buildings, and humans



## Problem of the Day

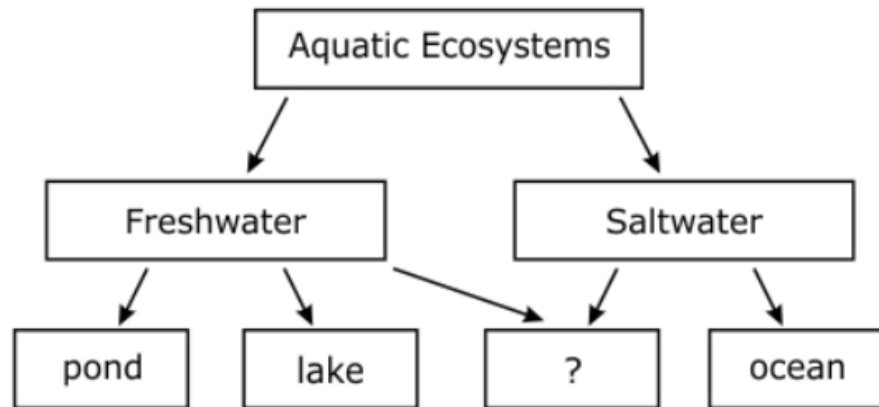
Which could be a secondary consumer?

- A. bear
- B. oak tree
- C. slug
- D. squirrel

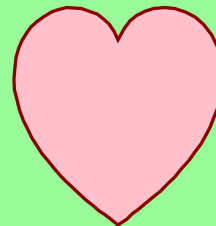


# Problem of the Day

Which **best** completes the graphic organizer?



- A. estuary
- B. creek
- C. river

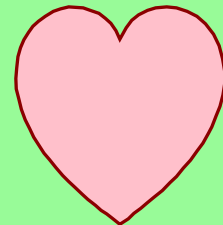


# Problem of the Day

What do all these ecosystems have in common?

Four Ecosystems
reef
pond
marsh
prairie

- A. fish
- B. sunlight
- C. salt water
- D. tall grasses

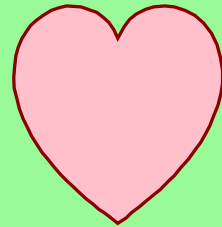




# Problem of the Day

**Ospreys are birds that eat fish. Where would an osprey most likely live?**

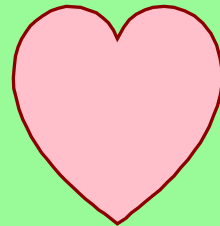
- A. near a forest
- B. near a marsh
- C. near a desert
- D. near a prairie



## Problem of the Day

Which is true of a tropical rainforest?

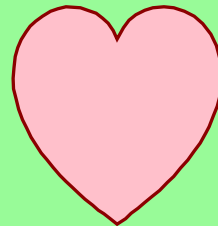
- A. They are found only in South America.
- B. Only a few different species of plants and animals can be found there.
- C. The tree canopy causes only a small amount of sunlight to reach the ground.
- D. Each organism found in a rainforest can also be found in a deciduous forest.



## Problem of the Day

Which list includes organisms commonly found in a deciduous forest?

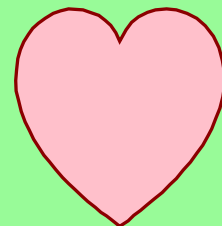
- A. deer, squirrel, mouse
- B. cactus, wildflowers, tortoise
- C. grass, prairie dogs, bison
- D. lizard, scorpion, kangaroo rat



## Problem of the Day

Which two ecosystems are terrestrial?

- A. ponds and lakes
- B. forests and estuaries
- C. oceans and grasslands
- D. forests and grasslands



## Problem of the Day

Which can be concluded about the trees that grow in a temperate deciduous forest?

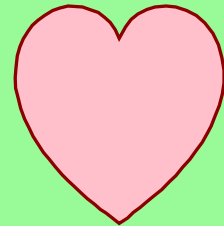
- A. The trees require constant direct sunlight to survive.
- B. The trees grow only during the warm months of the year.
- C. The trees have adapted to survive the change of seasons.
- D. The trees are unable to grow in climates that have constant rainfall.



## Problem of the Day

It is common to see wild animals like deer and coyotes in large cities and neighborhoods. Which is **most likely** a reason the animals are found in these areas?

- A. They prefer to be near houses.
- B. They prefer to be near people.
- C. Their habitat is increasing in size.
- D. Their habitat is decreasing in size.



## Problem of the Day

An ecologist observing a deciduous forest ecosystem would **most likely** write which journal entry?

- A. "This morning I awoke and found it raining again! Thankfully, it was a quick storm and for most of the morning I was able to observe a population of chimpanzees that lives close to the camp. By lunch, I was hot, sweaty, and ready for a shower."
- B. "When I climbed out of the tent this morning, the first thing I noticed was the large number of birds hunting for breakfast in the water. After breakfast, I took a quick walk to take pictures of the ocean from the shoreline."
- C. "From the jeep, I am able to observe bison grazing on vegetation. Another mile down the road, I see a group of prairie dogs peeking out from their burrows. Plants include mostly grasses and a few small shrubs."
- D. "From my observation tower I can see trees that are full of orange, red, and yellow leaves. I also observe deer searching for food and several flocks of birds that are heading south for winter."



# Problem of the Day

Which animals recycle food waste and turn it into nutrients for the soil?

- A. birds
- B. foxes
- C. worms
- D. squirrels





# Problem of the Day

