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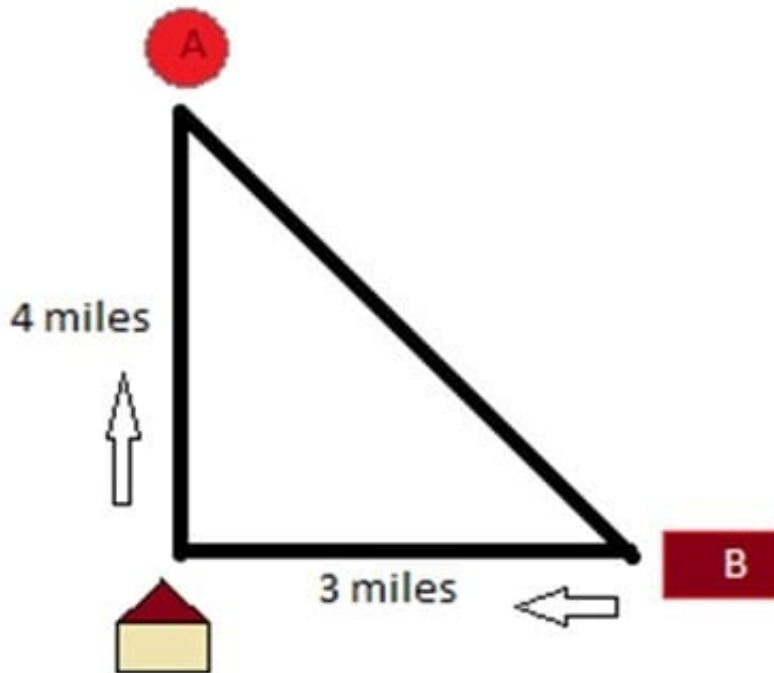
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**QUESTION 1**

Maria leaves her house and drives to store 'A' for food, then to gas station 'B' and finally back to home. What was her total displacement?



- A. 0 miles
- B. 5 miles
- C. 12 miles
- D. 24 miles
- E. 27 miles

Correct Answer: A

Displacement is change of position from final to initial. Since Maria started at home and ended up at home, her total displacement was 0 miles. If the problem had asked what her distance traveled was, then one would expect it to be the perimeter, which is 12 miles.

QUESTION 2

Which of the following is NOT a natural dispersal process that would lead to species colonization on an island?

- A. Mussels carried into a lake on the hull of a ship
- B. Drought connecting an island to other land
- C. Floating seeds



- D. Animals swimming long distances
- E. Birds adapted to flying long distances

Correct Answer: A

Transportation by humans or human-associated means is not considered a natural dispersal process.

QUESTION 3

Which of the following are not functions of bones in the human body?

- A. Movement
- B. Protection
- C. Hematopoiesis
- D. Reservoir of minerals
- E. All of the above are correct functions.

Correct Answer: E

Bone acts as levers in the body that conducts movement via the attached muscles. Bone also serves a protection function of internal organs (ex. skull protects the brain, vertebra protects the spinal cord). Hematopoiesis occurs in the bone marrow of the bone. Bone is also a reservoir of minerals as it contains approximately 99% of the body's calcium and 85% of the body's phosphorus.

QUESTION 4

At which trophic level would you find the greatest amount of biomass?

- A. Producers
- B. Primary Consumers
- C. Secondary Consumers
- D. Tertiary Consumers
- E. Quaternary Consumers

Correct Answer: A

Producers have the greatest amount of biomass, whereas the quaternary consumers have the least amount of biomass. Biomass is lost as you go up the food pyramid.

QUESTION 5

Which structure is responsible for a sperm cell's motility?



- A. Cilia
- B. Flagellum
- C. Mitochondria
- D. Acrosome
- E. A and B

Correct Answer: B

The flagellum is responsible for propelling the sperm. The acrosome contains the digestive enzymes that break down the ovum membrane.

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