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**QUESTION 1**

Hemophilia is a sex-linked trait. From which parent(s) did an affected boy inherit the trait?

- A. Both the father and the mother
- B. Impossible to tell
- C. Only the mother
- D. The mother or the father but not both
- E. Only the father

Correct Answer: C

Sex-linked, or X-linked, traits can only be transmitted to males through the mother.

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**QUESTION 2**

A man went to the store and bought pencils, pens, and erasers in the ratio of 2 : 4 : 3. If he bought 6 erasers then how many items total did he buy?

- A. 9
- B. 18
- C. 12
- D. 10

Correct Answer: B

The ratio can be expressed as:  $2x : 4x : 3x$ , where  $3x = 6$  represents the number of erasers bought. Solving for  $x$ :  $x = 2$ , and plugging this value into the ratio:  $2(2) : 4(2) : 3(2)$  ;  $4 : 8 : 6$ . Find the total number of items purchased by combining these numbers:  $4 + 8 + 6 = 18$ .

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**QUESTION 3**

Farmer Smith enclosed his rectangular pasture with fence that cost him \$1.50 per linear meter. If his pasture is twice as long as it is wide with a total area of 180,000 square meters, then what was the cost, in dollars, of the fence?

- A. 1,200
- B. 1,500
- C. 1,800
- D. 2,700

Correct Answer: D



In this question, we are told that a farmer enclosed a rectangular pasture with a fence that has a length that is twice as long as the width. The total area of the pasture is 180,000 square meters. We are asked to determine the cost of the entire fence given that it costs \$1.50 per linear meter. The pasture is a rectangle and the area of a rectangle equals its length (L) times the width (W); hence,  $L \times W = 180,000$ . Since the length of the fence is twice as long as the width, substitute  $2W$  for L in the area formula to get  $2W \times W = 180,000$ . Dividing both sides of the equation by 2, we get that  $W^2 = 90,000$ . Solving for W:

$$W = \sqrt{90,000} = 300$$

The width of the fence is 300 meters; therefore, the length must be  $2 \times 300 = 600$  meters. Since the perimeter of the pasture is  $2 \times (300 + 600)$  or 1,800 meters and the cost of the fence is \$1.50 per meter, the total cost of the fence is \$1.5 times 1,800 or \$2,700.

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#### QUESTION 4

Which of the following is the major way in which nitrogen is assimilated into living things?

- A. Erosion from sediments
- B. Fixation by bacteria
- C. Respiration from the atmosphere
- D. Transpiration
- E. Absorption from soils

Correct Answer: B

Plants and animals cannot use inorganic nitrogen. It must be fixed, or reduced to ammonium, in order to enter a living ecosystem.

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#### QUESTION 5

Which of the following is found in the plasma membrane of a cell?

- A. phospholipid
- B. glycoprotein
- C. cholesterol
- D. all of the above

Correct Answer: D

The plasma membrane of a cell is composed of a phospholipid bilayer, a double layer of lipids combined with phosphate groups. The hydrophilic nature of the phosphate heads and the hydrophobic nature of the lipids create a double-sided membrane with phosphates on both sides and lipids trapped between. Cholesterol and glycoprotein molecules are embedded inside the phospholipid bilayers.



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