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QUESTION 1

Energy for ATP synthesis is produced primarily by: A. NADH

B. proton gradient

C. ATP synthase

D. Na⁺

Correct Answer: B

Proton pumps located along the inner mitochondrial membrane enable the passage of H⁺ across a concentration gradient. These protons pass through ATP synthase in which an axel rotates to combine phosphate with ADP to form ATP.

Without the proton gradient, ATP synthase could not create ATP.

QUESTION 2

The distribution of electrons evenly in a molecule contributes to stability. This accounts for:

A. atomic mass

B. valence

C. resonance

D. electronegativity

Correct Answer: C

Resonance describes the possible positions of electrons within a molecule when more than one possibility exists. Molecules that have multiple resonance structures display greater stability than those with fewer resonance structures.

QUESTION 3

Jim has 10 apples and he gives 7 to Bill. Now Bill has 3 times as many apples as Jim had. How many apples did Bill have to begin with?

A. 20

B. 17

C. 23

D. 2

Correct Answer: C



Rephrase the question into an algebraic expression: 3 times Jim's original amount is 30. This came after Jim gave 7 to Bill, so reduce this number by 7 to find Bill's original amount: $30 - 7 = 23$.

QUESTION 4

Paul's average bowling score for a series was 164 and Dave's was 158. If each of them bowled 4 games, how much greater was Paul's total score for the series than Dave's?

- A. 24
- B. 6
- C. 18
- D. 12

Correct Answer: A

In this question, we are told that Paul's average bowling score for a series of 4 games was 164 and Dave's was 158. We are asked to determine the total amount that Paul's score was greater than Dave's. Therefore, Paul's score on average exceeded Dave's score by 6 points per game, which means that for all 4 games Paul's total score exceeded Dave's total score by 24 points.

QUESTION 5

If a multivitamin supplement costs \$n for 100 pills, how many pills can be bought for \$10?

- A. 10n
- B. 1000n
- C. 10/n
- D. 1000/n

Correct Answer: D

In this question, we can buy 100 pills for \$n. We are asked to determine how many pills we can buy for \$10. First, let's determine how many pills can be bought for \$1: we can purchase $100/n$. Therefore, \$10 would buy 10 times $100/n$ or $1000/n$. Therefore, we can purchase $1000/n$ for \$10.

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