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QUESTION 1

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 4 * 6 points or 24 points.

QUESTION 2

What is the value of:

$$i^2 \times i^3$$

- A. 1
- B. -i
- C. 1/i
- D. -1

Correct Answer: C

QUESTION 3

Which of the following provides the necessary freedom for bones as well as protect joints from external injury and bones from dislocation?

- A. Cartilage
- B. Ligaments
- C. Tendons
- D. Muscles



Correct Answer: B

Ligaments are strong flexible white fibrous bands. They bind the articular surfaces of bones together. They provide necessary freedom for the bones as well as protect joints from external injury and bones from dislocation. Tendons are white bands which join muscles with bones while ligaments hold bones together at joints and are inelastic.

QUESTION 4

The region in space where an electron is likely to be found is called a(n):

- A. Axis
- B. Cloud
- C. Orbital
- D. Configuration

Correct Answer: C

The region in space where an electron is likely to be found is called an orbital. There are different kinds of orbitals with different sizes and shapes. The orbital at the lowest energy level is defined as a 1s orbital. It is a sphere with its center at the nucleus of the atom. The next higher energy level is called a 2s orbital. It is larger than a 1s orbital. Since it has a higher energy level, it has lower stability compared to a 1s orbital. This is because the average distance between the nucleus and electrons in a 2s orbital is greater than in a 1s orbital. The next three orbitals are of equal energy, known as 2p orbitals. They are dumbbell-shaped. They are further differentiated by the names 2px, 2py, and 2pz, where the x, y, and z refer to the corresponding axes.

QUESTION 5

If 8 people can eat 6 bags of chips, how many people will it take to eat 15 bags of chips?

- A. 22
- B. 18
- C. 16
- D. 20

Correct Answer: D

Use a proportion to solve the problem. $\frac{8}{6} = \frac{x}{15}$, $60 = 3x$, $x = 20$.

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