2003 Q1

1. Jamie counted the number of edges of a cube, Jimmy counted the number of corners, and Judy counted the number of faces. They then added the three numbers. What was the resulting sum?

    (A) 12   (B) 16   (C) 20   (D) 22   (E) 26

1. **(E)** A cube has 12 edges, 8 corners and 6 faces. The sum is 26.

2010 Q5

5. Alice needs to replace a light bulb located 10 centimeters below the ceiling in her kitchen. The ceiling is 2.4 meters above the floor. Alice is 1.5 meters tall and can reach 46 centimeters above the top of her head. Standing on a stool, she can just reach the light bulb. What is the height of the stool, in centimeters?

    (A) 32   (B) 34   (C) 36   (D) 38   (E) 40

5. **Answer (B):** The ceiling is $2.4 - 1.5 = 0.9$ meters $= 90$ centimeters above Alice's head. She can reach 46 centimeters above the top of her head, and the light bulb is 10 centimeters below the ceiling, so the stool is $90 - 46 - 10 = 34$ centimeters high.