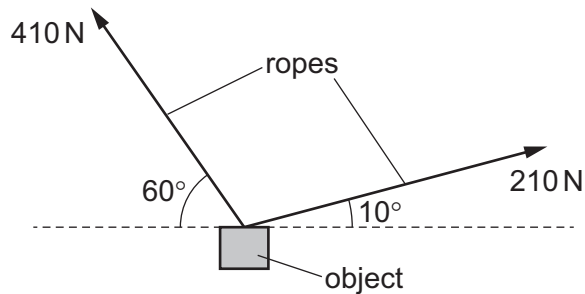14 An object is suspended by two ropes. One rope has a tension of 410 N at an angle of 60° to the horizontal. The other rope has a tension of 210 N at an angle of 10° to the horizontal.

The object is in equilibrium.

What is the mass of the object?

A   40 kg   **B**   42 kg   **C**   390 kg   **D**   410 kg