

- 7** A uniform cube of volume 0.729 m^3 is floating in water. The density of water is 1000 kg m^{-3} .

A load of 400 N is then placed onto the cube. The cube remains afloat.

What is the change in the depth of the cube submerged in the water after the load is added?

- A** 0.0503 m **B** 0.0559 m **C** 0.494 m **D** 0.900 m