

6 A hollow ball of mass 100 g is suspended from a newton meter. The ball is then gently lowered into a bowl of water so that only half of the ball is above the surface of the water. The reading on the newton meter is now 0.75 of the initial value.

The density of water is 1.0 g cm^{-3} .

What is the volume of the ball?

A 25 cm^3

B 50 cm^3

C 75 cm^3

D 150 cm^3

7 An object of weight W is suspended from a spring so that the spring extends by x .