

9 A ball of mass 2.0 kg travels horizontally with a speed of 4.0 ms^{-1} . The ball collides with a wall and rebounds in the opposite direction with a speed of 2.8 ms^{-1} . The time of the collision is 150 ms.

What is the average force exerted on the wall?

A 16 N

B 37 N

C 53 N

D 91 N