

11 A stationary ball of mass m is hit by a bat. The ball leaves the bat with velocity v .

The bat is in contact with the ball for a short time Δt .

What is the average force of the bat on the ball?

A $mv\Delta t$

B $\frac{mv}{\Delta t}$

C $\frac{1}{2}mv^2\Delta t$

D $\frac{\frac{1}{2}mv^2}{\Delta t}$