

15 When a horizontal force F is applied to a frictionless trolley over a distance s , the kinetic energy of the trolley changes from 4 J to 8 J.

If a force of $2F$ is applied to the trolley over a distance of $2s$, what will the original kinetic energy of 4 J become?

A 16 J

B 20 J

C 32 J

D 64 J

16 The kinetic energy of a vehicle of mass 1000 kg is 4.5×10^5 J. It is braked with a total constant