7   When a horizontal force F is applied to a trolley over a smooth horizontal surface of distance x, its kinetic energy changes from 2 J to 6 J.

If a force $2F$ is applied to the trolley over a distance of $2x$, what will be the final   kinetic energy of it? Assume the original kinetic energy of the trolley is 2 J.

A 12 J   **B** 16 J   **C** 18 J   **D** 24 J