3 An arrow flies through the air and arrives with kinetic energy E at a target. The arrow is stopped in a time t by an average force F.

The process is repeated for the same arrow with different values of E.

What is the relationship between E, F and t?

A $Ft \propto \sqrt{E}$ **B** $Ft \propto E$ **C** $Ft \propto \frac{1}{\sqrt{E}}$ **D** $Ft \propto \frac{1}{E}$