

- 9 The driving force F of a car of mass m causes the car to accelerate. In a time t it travels a distance s and its speed increases from u to v .

What is the useful work done by the car engine?

A $\frac{Fs}{t}$

B $m(v - u)$

C Ft

D $\frac{m(v^2 - u^2)}{2}$