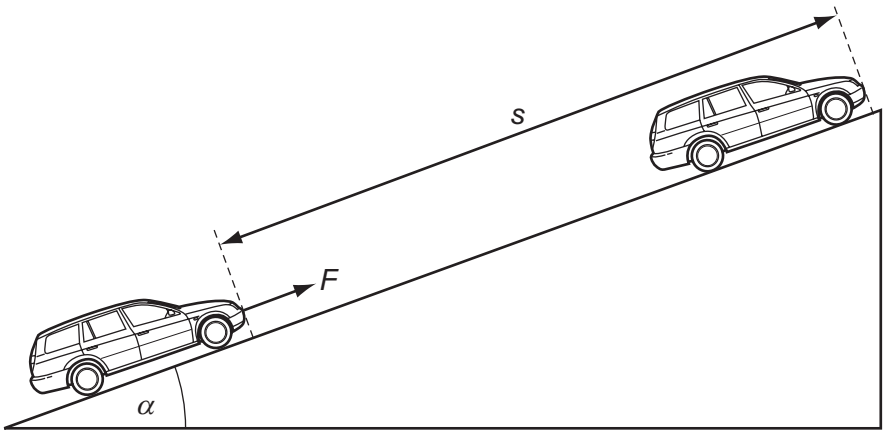
16 A constant force F, acting on a car of mass m, moves the car up the slope through a distance s at constant velocity v. The angle of the slope to the horizontal is α.



Which expression gives the efficiency of the process?

A $\frac{mgs\sin\alpha}{Fv}$ **B** $\frac{mv}{Fs}$ **C** $\frac{mv^2}{2Fs}$ **D** $\frac{mg\sin\alpha}{F}$

17 Atmospheric pressure at sea level has a value of 100 kPa.
The density of sea water is 1020 kg m^{-3}.

At what depth in the sea would the total pressure be 110 kPa?

A 1.0 m **B** 9.8 m **C** 10 m **D** 11 m

Space for working