

- 2** The Reynolds number  $R$  is a constant used in the study of liquids flowing through pipes.  $R$  is a pure number with no unit.

$$R = \frac{\rho v D}{\mu}$$

where  $\rho$  is the density of the liquid,  $v$  is the speed of the liquid and  $D$  is the diameter of the pipe through which the liquid flows.

What are the SI base units of  $\mu$ ?

- A**  $\text{kg m s}$                       **B**  $\text{kg m}^{-1} \text{s}$                       **C**  $\text{kg m s}^{-1}$                       **D**  $\text{kg m}^{-1} \text{s}^{-1}$

- 3** When a force  $F$  moves its point of application through a displacement  $s$  in the direction of the