

- 2** The unit of work, the joule, may be defined as the work done when the point of application of a force of 1 newton is moved a distance of 1 metre in the direction of the force.

Express the joule in terms of the base units of mass, length and time, the kg, m and s.

- A**  $\text{kg m}^{-1} \text{s}^2$       **B**  $\text{kg m}^2 \text{s}^{-2}$       **C**  $\text{kg m}^2 \text{s}^{-1}$       **D**  $\text{kg s}^{-2}$

- 3** Two forces, each of 10 N, act at a point P, as shown in the diagram. The angle between the