

**9** A point mass moves through a circular arc of length  $l$  and radius  $r$  in time  $t$ .

What is its angular velocity about the centre of the circle?

A  $\frac{l}{rt}$

B  $\frac{r}{lt}$

C  $\frac{2\pi}{lt}$

D  $\frac{2\pi r}{t}$