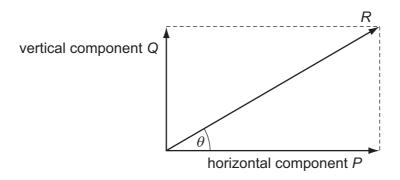
- 1 What is the unit watt in terms of SI base units?
 - $\mathbf{A} \ \mathrm{J s}^{-1}$
- $\mathbf{B} \quad \mathsf{m}^2 \, \mathsf{kg} \, \mathsf{s}^{-1}$
- Nms^{-1}
- 2 For which quantity is the magnitude a reasonable estimate?
 - frequency of a radio wave
- 500 pHz
- **B** mass of an atom
- 500 μg
- C the Young modulus of a metal 500 kPa
- **D** wavelength of green light
- 500 nm
- 3 A vector has magnitude *R* and perpendicular components *P* and *Q*, as shown in the diagram.



Which row correctly describes the perpendicular components?

	vertical component	horizontal component
Α	Q	$R \sin heta$
В	$R\cos heta$	Р
С	$R\cos heta$	$R \sin heta$
D	$R\sin heta$	$R\cos\theta$

Space for working