

1 Which pair includes a vector quantity and a scalar quantity?

A displacement; acceleration

B force; kinetic energy

C power; speed

D work; potential energy

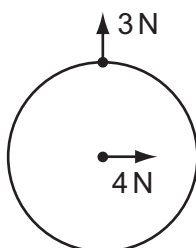
2 The unit of resistivity, expressed in terms of base units, is given by

$$\text{kg x}^3 \text{y}^{-2} \text{z}^{-3}.$$

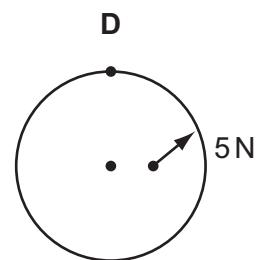
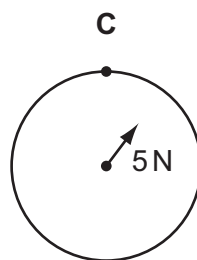
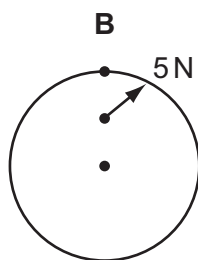
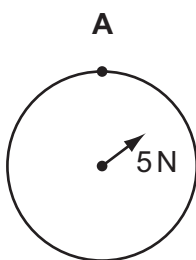
Which base units are x, y and z?

	x	y	z
A	ampere	metre	second
B	metre	ampere	second
C	metre	second	ampere
D	second	ampere	metre

3 Two forces act on a circular disc as shown.



Which diagram shows the line of action of the resultant force?



Space for working