

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

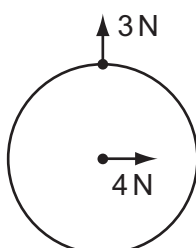
2 The unit of resistivity, expressed in terms of base units, is given by

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

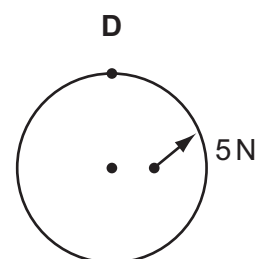
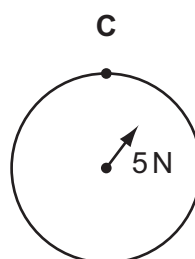
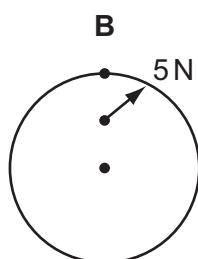
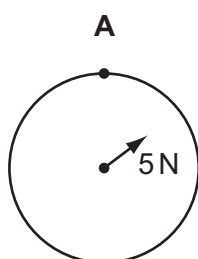
Which base units are x, y and z?

	x	y	z
<b>A</b>	ampere	metre	second
<b>B</b>	metre	ampere	second
<b>C</b>	metre	second	ampere
<b>D</b>	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**