

1 Which product-pair of metric prefixes has the greatest magnitude?

- A pico  $\times$  mega
- B nano  $\times$  kilo
- C micro  $\times$  giga
- D milli  $\times$  tera

2 In the expressions below

- $a$  is acceleration,
- $F$  is force,
- $m$  is mass,
- $t$  is time,
- $v$  is velocity.

Which expression represents energy?

- A  $Ft$                       B  $Fvt$                       C  $\frac{2mv}{t}$                       D  $\frac{at^2}{2}$

3 Which row of the table shows a physical quantity and its correct unit?

	physical quantity	unit
A	electric field strength	$\text{kg m s}^{-2} \text{C}^{-1}$
B	specific heat capacity	$\text{kg}^{-1} \text{m}^2 \text{s}^{-2} \text{K}^{-1}$
C	tensile strain	$\text{kg m}^{-1} \text{s}^{-2}$
D	the Young modulus	$\text{kg m}^{-1} \text{s}^{-3}$