

1 What could **not** be a measurement of a physical quantity?

- A** 10 K                      **B**  $11 \text{ J N}^{-1} \text{ m}^{-1}$                       **C**  $17 \text{ Pa m}^3 \text{ N}^{-1}$                       **D** 25 T m

2 A computer memory stick is labelled as having a storage capacity of 128 GB.

The letter B stands for byte, which is a unit.

What is the equivalent storage capacity?

- A**  $1.28 \times 10^8 \text{ B}$   
**B**  $1.28 \times 10^{11} \text{ B}$   
**C**  $1.28 \times 10^{14} \text{ B}$   
**D**  $1.28 \times 10^{17} \text{ B}$

3 A man of mass 75.2 kg uses a set of weighing scales to measure his mass three times. He obtains the following readings.

	mass / kg
reading 1	80.2
reading 2	80.1
reading 3	80.2

Which statement describes the precision and accuracy of the weighing scales?

- A** not precise to  $\pm 0.1 \text{ kg}$  and accurate to  $\pm 0.1 \text{ kg}$   
**B** not precise to  $\pm 0.1 \text{ kg}$  and not accurate to  $\pm 0.1 \text{ kg}$   
**C** precise to  $\pm 0.1 \text{ kg}$  and accurate to  $\pm 0.1 \text{ kg}$   
**D** precise to  $\pm 0.1 \text{ kg}$  and not accurate to  $\pm 0.1 \text{ kg}$

4 Which statement about scalar and vector quantities is correct?

- A** A scalar quantity has direction but not magnitude.  
**B** A scalar quantity has magnitude but not direction.  
**C** A vector quantity has direction but not magnitude.  
**D** A vector quantity has magnitude but not direction.