

15 A man of weight 600 N stands with both feet flat on the ground.

What is a reasonable estimate of the pressure exerted on the ground by the weight of the man?

- A** $1 \times 10^0 \text{ Pa}$ **B** $1 \times 10^2 \text{ Pa}$ **C** $1 \times 10^4 \text{ Pa}$ **D** $1 \times 10^6 \text{ Pa}$

1 What is a reasonable estimate of the weight of an adult human?

- A** $7 \times 10^0 \text{ N}$ **B** $7 \times 10^2 \text{ N}$ **C** $7 \times 10^4 \text{ N}$ **D** $7 \times 10^6 \text{ N}$

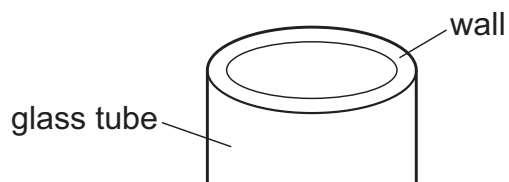
1 What is essential to accurately represent all physical quantities?

- A** a base unit and a number
B a unit and a number expressed in standard form (scientific notation)
C a unit and a numerical magnitude
D an SI unit and a numerical magnitude

1 What must all physical quantities have?

- A** a direction and a magnitude
B a direction and a unit
C a magnitude and a prefix
D a magnitude and a unit

- 3** Calipers are used to determine the thickness of the wall of a glass tube.



The following measurements are made.

internal diameter of the tube = (10.0 ± 0.1) mm

external diameter of the tube = (12.0 ± 0.1) mm

What is the thickness of the wall of the tube?

- A** (1.0 ± 0.1) mm
- B** (1.0 ± 0.2) mm
- C** (2.0 ± 0.1) mm
- D** (2.0 ± 0.2) mm