

1 Which unit is **not** an SI base unit?

- A** A **B** kg **C** C **D** s

2 What is the best estimate of the number of atoms in a piece of metal of volume 50 cm^3 ?

- A** 5×10^{15} **B** 5×10^{25} **C** 5×10^{29} **D** 5×10^{31}

3 A copper pipe has a true diameter of 42.03 mm.

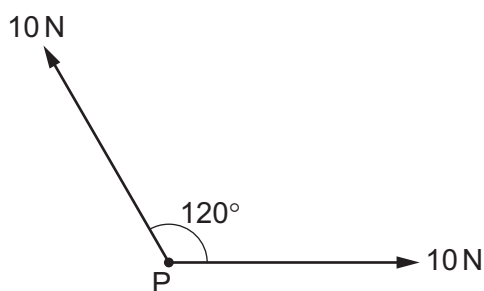
A builder measures the diameter of the pipe five times using digital calipers. The measurements are shown.

diameter / mm
48.01
47.99
48.01
48.00
47.99

What describes the builder's measurements?

- A** accurate and precise
B accurate but not precise
C not precise and not accurate
D precise but not accurate

4 Two forces, each of 10 N, act at a point P, as shown. The angle between the directions of the forces is 120° .



What is the magnitude of the resultant force?

- A** 5 N **B** 10 N **C** 17 N **D** 20 N