

1 Which statement is **not** a reasonable estimate?

- A Atmospheric pressure at sea level is about 1×10^5 Pa.
- B Light takes 5×10^2 s to reach us from the Sun.
- C The frequency of ultraviolet light is 3×10^{12} Hz.
- D The lifespan of a man is about 2×10^9 s.

2 Three of these quantities have the same unit.

Which quantity has a different unit?

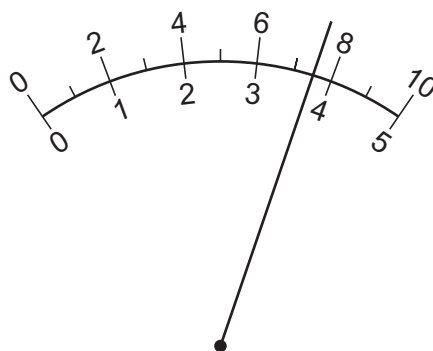
- A $\frac{\text{energy}}{\text{distance}}$
- B force
- C power \times time
- D rate of change of momentum

3 Which group of quantities contains only vectors?

- A acceleration, displacement, speed
- B acceleration, work, electric field strength
- C displacement, force, velocity
- D power, electric field strength, force

4 An ammeter is calibrated so that it shows a full-scale deflection when it measures a current of 2.0 A.

The diagram shows the display of this ammeter when it is measuring a current.



Which current is the ammeter measuring?

- A 0.75 A
- B 1.5 A
- C 3.8 A
- D 7.5 A