

1 A student measures the diameter of a pencil.

Which measuring instrument will give the most precise reading?

- A a measuring tape
- B a metre rule
- C a micrometer screw gauge
- D a ruler

2 A light object is dropped from rest. It falls a large distance vertically through air.

How can the motion of the object be described?

- A constant acceleration
- B increasing acceleration
- C decreasing acceleration and then moving at terminal velocity
- D increasing acceleration and then moving at terminal velocity

3 A car travels at an average speed of 60 km/h for 15 minutes.

How far does the car travel in 15 minutes?

- A 4.0 km
- B 15 km
- C 240 km
- D 900 km

4 Which quantity is a force due to a gravitational field?

- A density
- B mass
- C weight
- D volume

5 The density of air is 1.2 kg/m^3 .

A room has dimensions $5.0 \text{ m} \times 4.0 \text{ m} \times 3.0 \text{ m}$.

What is the mass of the air in the room?

- A 0.02 kg
- B 0.10 kg
- C 50 kg
- D 72 kg