

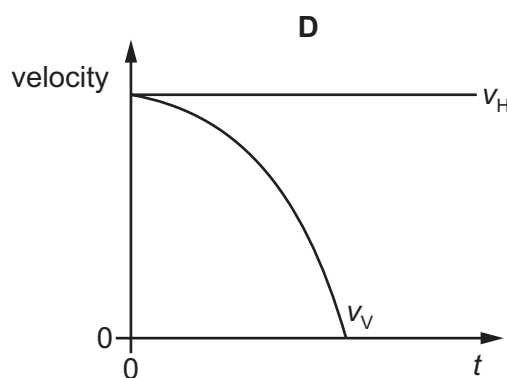
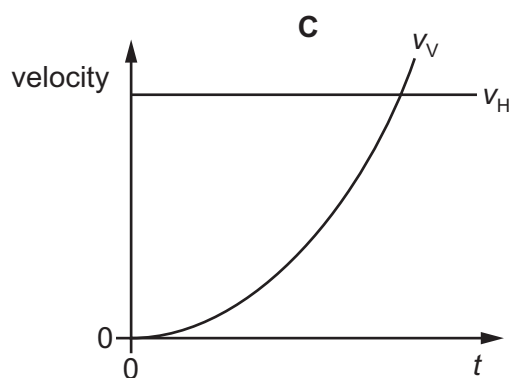
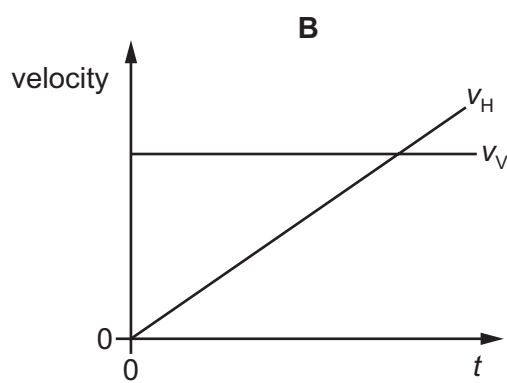
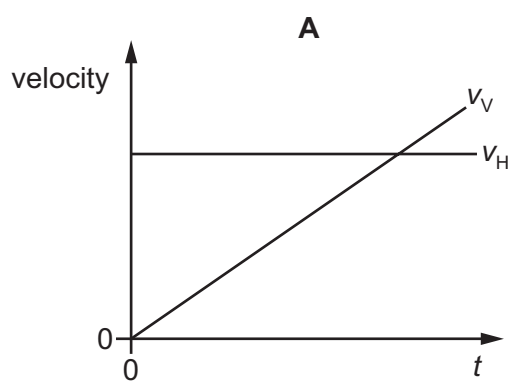
- 5 The width of a table is measured as (50.3 ± 0.1) cm. Its length is measured as (1.40 ± 0.01) m.

What is the area of the table and its absolute uncertainty?

- A $(0.7 \pm 0.1)\text{m}^2$
 B $(0.704 \pm 0.006)\text{m}^2$
 C $(0.704 \pm 0.011)\text{m}^2$
 D $(70.4 \pm 0.6)\text{m}^2$

- 6 A stone is projected horizontally at time $t = 0$ and falls. Air resistance is negligible. The stone has a horizontal component of velocity v_H and a vertical component of velocity v_V .

Which graph shows how v_H and v_V vary with time t ?



- 7 Two isolated spheres have masses 2.0 kg and 4.0 kg. The spheres collide and then move apart.

During the collision, the 2.0 kg mass has an average acceleration of 8.0 m s^{-2} .

What is the average acceleration of the 4.0 kg mass?

- A 2.0 m s^{-2} B 4.0 m s^{-2} C 8.0 m s^{-2} D 16 m s^{-2}