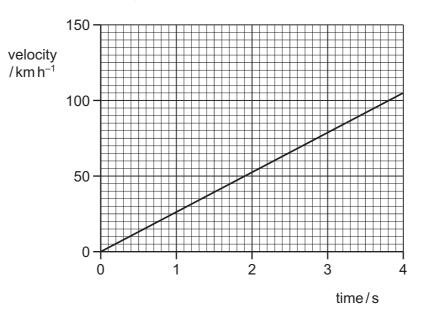
8 The velocity of an electric car changes as shown.



What is the acceleration of the car?

- **A** $210 \,\mathrm{m \, s^{-2}}$
- **B** $58 \,\mathrm{m \, s^{-2}}$
- $C 26 \,\mathrm{m\,s^{-2}}$
- **D** $7.3 \,\mathrm{m \, s^{-2}}$
- **9** A body falling in a uniform gravitational field encounters air resistance. The air resistance increases until terminal velocity is reached.

Which factor does not affect its terminal velocity?

- A the density of the air
- ${\bf B}\quad \mbox{ the height from which the body falls}$
- **C** the mass of the body
- **D** the shape of the body
- **10** Which of the following is a statement of the principle of conservation of momentum?
 - **A** Momentum is the product of mass and velocity.
 - **B** In an elastic collision, momentum is constant.
 - **C** The momentum of an isolated system is constant.
 - **D** The force acting on a body is proportional to its rate of change of momentum.