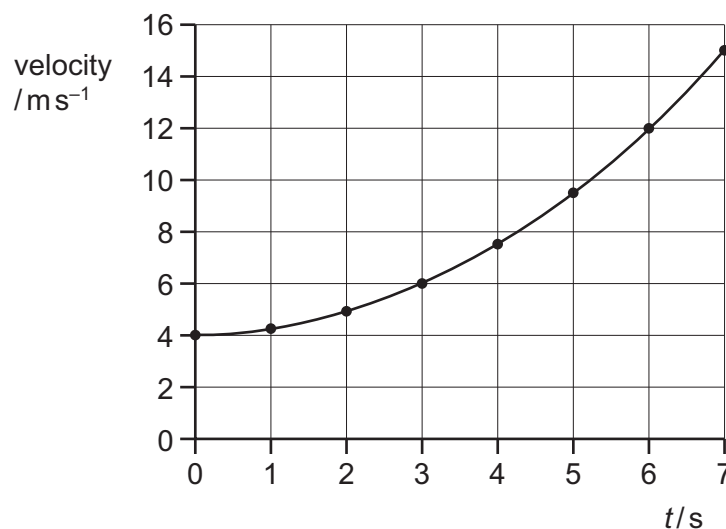


- 6 The graph shows the variation with time t of the velocity of a vehicle moving in a straight line.



The vehicle, moving at 4.0 ms^{-1} , begins to accelerate at time $t = 0$.

What is the vehicle's acceleration at time $t = 3.0 \text{ s}$?

- A** 0.67 ms^{-2} **B** 1.0 ms^{-2} **C** 1.3 ms^{-2} **D** 2.0 ms^{-2}
- 7 A stone is projected vertically upwards from the ground at an initial speed of 15 ms^{-1} . Air resistance is negligible.
- What is the maximum height reached by the stone?
- A** 0.76 m **B** 11 m **C** 23 m **D** 110 m
- 8 What is meant by the mass of an object?
- A** the property of the object that resists a change in motion
B the pull of the Earth on the object
C the total number of atoms in the object
D the weight of the object