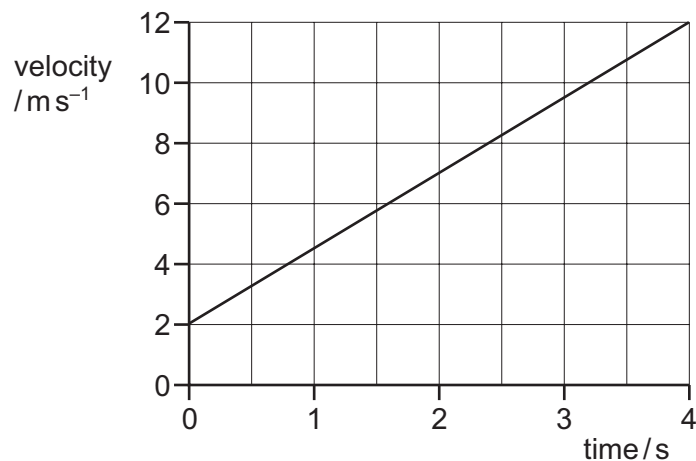


- 6 The diagram shows a velocity–time graph for a car.

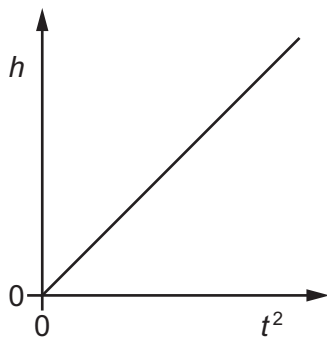


What is the distance travelled during the first 4.0 s?

- A** 2.5 m      **B** 3.0 m      **C** 20 m      **D** 28 m
- 7 A steel ball is dropped from rest from a height  $h$  above the ground. The ball hits the ground after a time  $t$ .

This is repeated for a number of different heights.

The graph shows the variation of  $h$  with  $t^2$  for the ball.



The gradient of the graph is  $G$ .

Which expression gives the acceleration of the ball?

- A**  $\frac{G}{2}$       **B**  $G$       **C**  $2G$       **D**  $G^2$