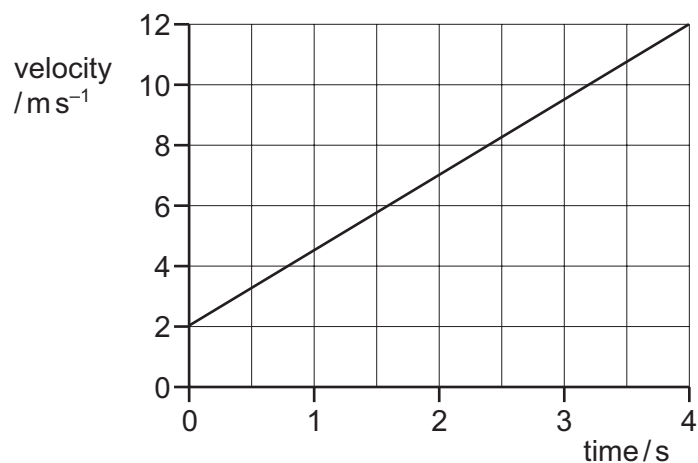


- 6 The diagram shows a velocity–time graph for a car.

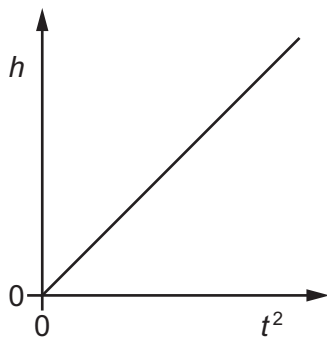


What is the distance travelled during the first 4.0 s?

- 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