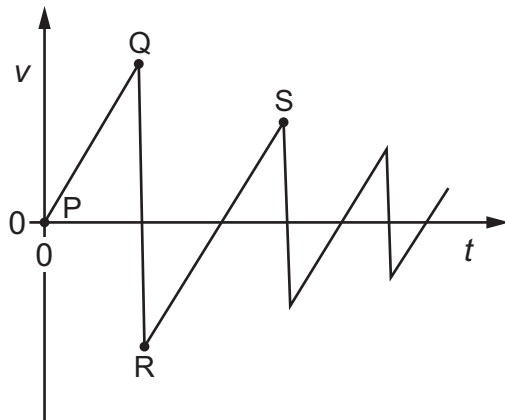


- 6 A ball is held above the ground and released. It falls to the ground and bounces several times.

The graph shows the variation with time  $t$  of the velocity  $v$  of the ball.



Four points on the graph are labelled P, Q, R and S.

Which statement is **not** correct?

- A** The area under line PQ represents the initial height of the ball.
- B** The collisions of the ball with the ground are inelastic.
- C** The gradient of the line RS represents the acceleration due to free fall.
- D** The maximum upwards velocity of the ball is reached at point P.