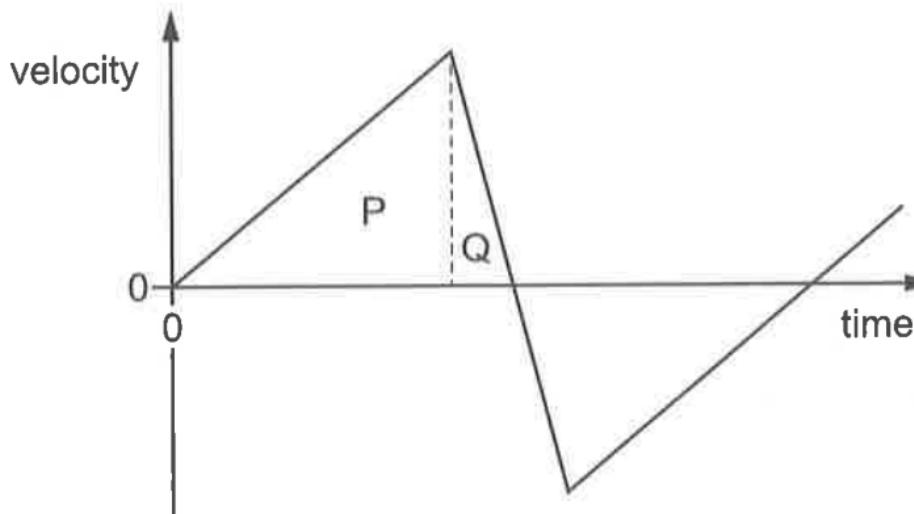


- 4 A ball is released from rest and bounces on a hard surface. The graph shows how velocity varies with time.

P and Q are areas between the line of the graph and the time axis.



Which area represents the distance fallen by the ball until it first makes contact with the floor?

A P

B Q

C $P + Q$

D $P - Q$

- 5 A lorry of mass 40 000 kg is subjected to a horizontal driving force of 63 000 N and total horizontal