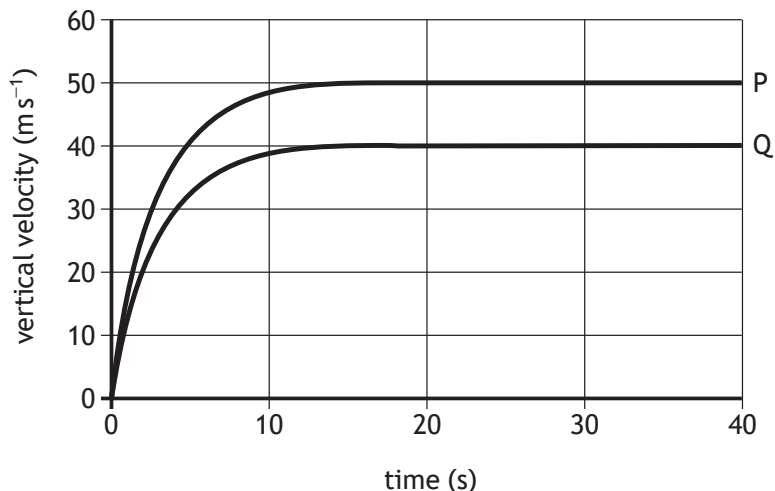


5. Two objects, P and Q, of the same mass are dropped from the same height.

The graph shows how the vertical velocities of the two objects vary with time for the first 40 s of their fall.



A group of students make the following statements based on information from the graph.

- I The terminal velocity of object P is 50 m s^{-1} .
- II Object Q reaches its terminal velocity at 10 s.
- III At 40 s, both objects have fallen through the same distance.

Which of these statements is/are correct?

- A I only
- B I and II only
- C I and III only
- D II and III only
- E I, II and III