

Mathematics Questions by Topics

Motion and Force

Question 30

Source: K11SM2Q15

Question 30

A hot air balloon is accelerating upwards with an acceleration of 1 m/s^2 . At a particular instant it is 250 metres above ground level and rising upwards with a speed of 3 m/s . A small stone falls from the balloon to the ground. Assuming air resistance is negligible, the time taken, for the stone to hit the ground in seconds, is closest to

- A. 7.89
- B. 7.54
- C. 7.46
- D. 7.20
- E. 7.14