

Mathematics Questions by Topics

Motion and Force

Question 44

Source: K8SM2Q18

Question 44

A hot air balloon is accelerating vertically upwards with an acceleration of 1 m/s^2 . A stone is dropped from the balloon when it is h metres above the ground. The stone strikes the ground 8 seconds later. Assuming the air resistance is negligible, the value of h is closest to

- A. 282.
- B. 290.
- C. 314.
- D. 322.
- E. 346.