

Mathematics Questions by Topics

Motion and Force

Question 40

Source: K9SM2Q21

Question 40

A sand bag of mass 9 kg is dropped from a stationary hot-air balloon, which is 150 metres above the ground. Which of the following is true?

- A. The sand bag hits the ground after 5.48 seconds, with a speed of 54.78m/s.
- B. The sand bag hits the ground after 5.48 seconds, with a speed of 53.68 m/s.
- C. The sand bag hits the ground after 5.53 seconds, with a speed of 55.33m/s.
- D. The sand bag hits the ground after 5.53 seconds, with a speed of 54.22m/s.
- E. The sand bag hits the ground after 5.68 seconds with a speed of 50m/s.