

- 4** While sitting on a tree branch 10.0 m above the ground, a monkey drops a chestnut. When the chestnut has fallen 1.5 m, the monkey throws a second chestnut vertically downwards.

What is the initial speed of the second chestnut if both chestnuts were to land at the same time?

- A** 5.4 m s^{-1} **B** 7.1 m s^{-1} **C** 14 m s^{-1} **D** 15 m s^{-1}