

- 6** A sprinter runs a 100 m race. The sprinter has a constant acceleration from rest of 2.5 m s^{-2} until reaching a speed of 10 m s^{-1} . The speed then remains constant until the end of the race.

Which time does it take the sprinter to run the race?

- A** 8.9 s **B** 10 s **C** 12 s **D** 14 s