

- 6 A sprinter runs a 100 m race. The sprinter has a constant acceleration from rest of 2.5 ms^{-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