

- 6** An aircraft on a runway accelerates uniformly from rest to its take-off speed of 58 m s^{-1} .

The acceleration of the aircraft is 4.2 m s^{-2} , and the aircraft uses 74% of the length of the runway to reach its take-off speed.

What is the length of the runway?

- A** 300 m **B** 540 m **C** 590 m **D** 800 m