

- 3** A racing car accelerates uniformly through three gear changes with the following average speeds:

20 m s⁻¹ for 2.0 s

40 m s⁻¹ for 2.0 s

60 m s⁻¹ for 6.0 s

What is the overall average speed of the car?

A 12 m s⁻¹

B 40 m s⁻¹

C 13.3 m s⁻¹

D 48 m s⁻¹