

- 8** On a particular railway, a train driver applies the brake of the train at a yellow signal, a distance of 1.0 km from a red signal, where the train stops.

The maximum deceleration of the train is 0.20 m s^{-2} .

Assuming uniform deceleration, what is the maximum safe speed of the train at the yellow signal?

A 14 m s^{-1}

B 20 m s^{-1}

C 40 m s^{-1}

D 400 m s^{-1}

Space for working