

**18** A motorist travelling at  $10 \text{ m s}^{-1}$  can bring his car to rest in a distance of 10 m.

If he had been travelling at  $30 \text{ m s}^{-1}$ , in what distance could he bring the car to rest using the same braking force?

- A** 17 m      **B** 30 m      **C** 52 m      **D** 90 m

**19** A suspended copper wire is gradually loaded until it is stretched just beyond the elastic limit, and it