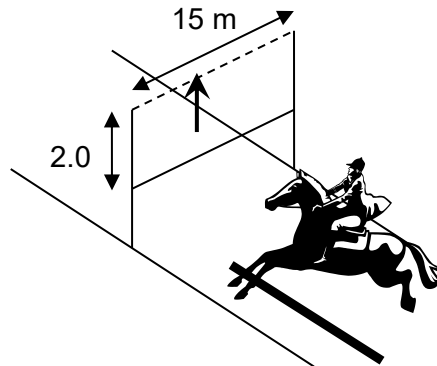


- 26** At the beginning of a horse race, a horizontal straight wire of length 15 m is raised vertically through a height of 2.0 m at a constant speed of 5.0 m s^{-1} .



If the average e.m.f. induced across the ends of the wire is 1.5 mV, what is the horizontal component of the Earth's magnetic field strength that is perpendicular to the wire?

- A** $1.0 \times 10^{-5} \text{ T}$ **B** $2.0 \times 10^{-5} \text{ T}$ **C** $1.5 \times 10^{-4} \text{ T}$ **D** $3.0 \times 10^{-4} \text{ T}$