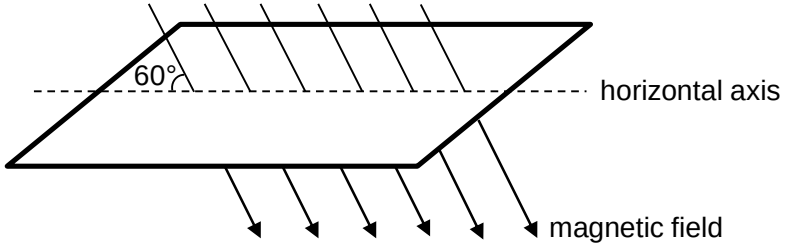
25 A magnetic field of flux density 4.0×10^{-4} T passes through a coil of wire of 50 turns and an area of 30 cm^2. The field makes an angle of 60° with the horizontal plane of the coil.



What is the e.m.f. induced in the coil when it is turned over once about its horizontal axis in a time of 0.60 s?

A 5.0×10^{-5} V **B** 8.7×10^{-5} V **C** 1.0×10^{-4} V **D** 1.7×10^{-4} V