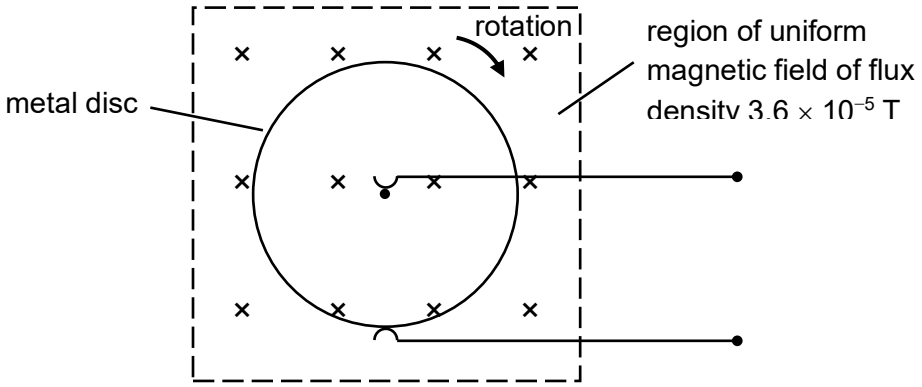
26 The diagram below shows a metal disc of area *A* situated in a uniform magnetic field of flux density 3.6×10^{-5} T. The plane of the metal disc is perpendicular to the magnetic field which is directed into the plane of the diagram. The metal disc is rotated about an axis through its centre at 1500 revolutions per minute. An e.m.f. of 3.7×10^{-7} V is induced between the centre of the metal disc and its rim.



What is the area *A* of the metal disc?

A 2.2×10^{-8} m^2 **B** 4.1×10^{-4} m^2 **C** 3.5×10^{-2} m^2 **D** 5.2×10^{4} m^2