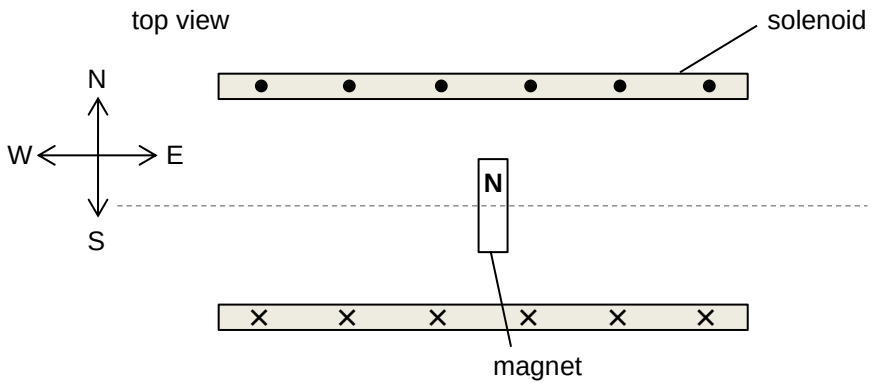
24 A light magnet is suspended inside a solenoid as shown in the figure below. The Earth's magnetic flux density is 2.0×10^{-5} T and the solenoid has 20 turns and a length of 15 cm. When a current is passed through the solenoid, it is found that the magnet rotates through an angle of 68° from its original direction.



What is the value of the current flowing through the solenoid?

A 0.048 A **B** 0.11 A **C** 0.30 A **D** 2.0 A