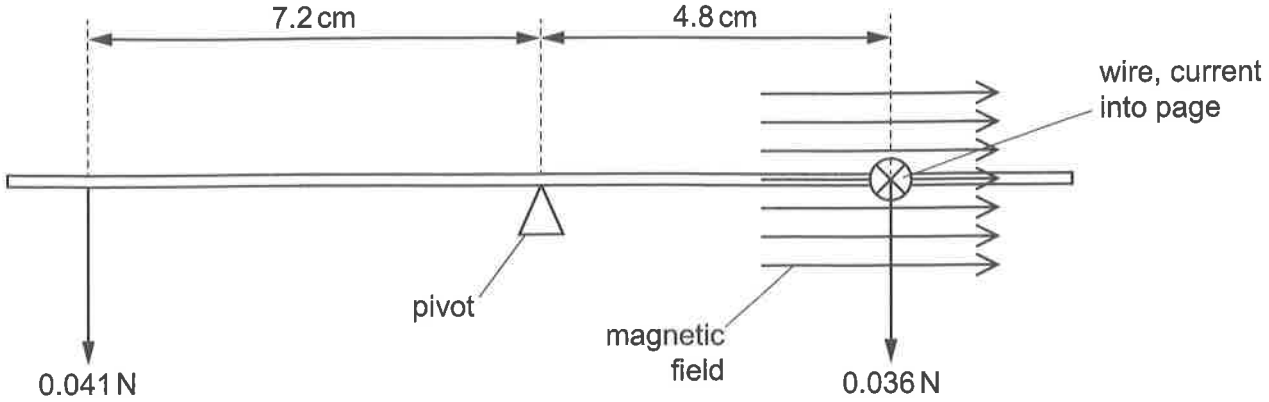
26 In a current balance, a wire of length 17.0 mm is placed in a uniform magnetic field. The weight of the wire is 0.036 N and it is 4.8 cm from the balance pivot.

The downwards force applied for equilibrium is 0.041 N at a distance of 7.2 cm from the pivot, as shown.



The current through the wire for equilibrium is 2.9 A.

What is the value of the flux density of the magnetic field?

A 0.52 T **B** 1.2 T **C** 1.3 T **D** 2.0 T