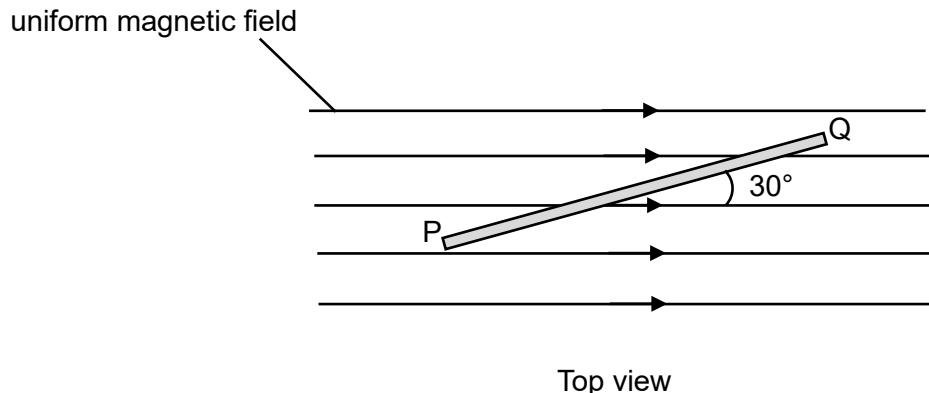


- 24** A horizontal wire PQ of length 0.50 m and weight 0.50 N is placed at an angle 30° to the uniform magnetic field as shown below. The wire is balanced by the magnetic force of the magnetic field of magnetic flux density of 1.0 T.



Top view

What is the magnitude and direction of the current in the wire?

	magnitude of current	direction of current
A	1.0 A	P to Q
B	2.0 A	P to Q
C	1.0 A	Q to P
D	2.0 A	Q to P