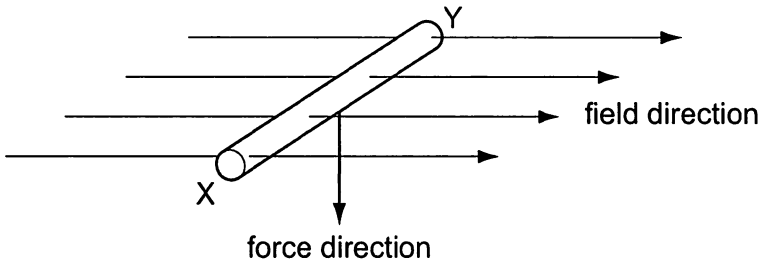
27 A current-carrying conductor is placed at right-angles to a uniform magnetic field of flux density 0.50 T. A 10 cm length of the conductor lies within the field and experiences a force of 2.4×10^{-2} N.



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

	magnitude / A	direction
A	0.48	X to Y
B	0.48	Y to X
C	0.0048	X to Y
D	0.0048	Y to X