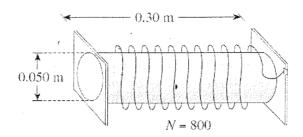
Consider the 800-turn solenoid shown in the diagram below.

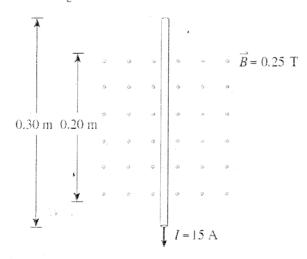


What is the current in the windings that would produce a magnetic field of 0.060 T at the centre of this solenoid?

- A. 3.0 A
- B. 8.0 A
- C. 18 A
- D. 290 A

2.

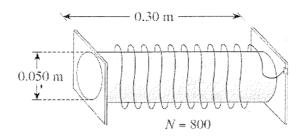
A conductor is placed in a magnetic field as shown.



What are the magnitude and direction of the magnetic force acting on this conductor when it carries a 15 A current?

	MAGNITUDE OF MAGNETIC FORCE	DIRECTION OF MAGNETIC FORCE
A.	, 0.75 N	To the left
В.	0.75 N	To the right
C.	1.1 N	To the left
D.	1.1 N	To the right

Consider the 800-turn solenoid shown in the diagram below.



What is the current in the windings that would produce a magnetic field of 0.060 T at the centre of this solenoid?

1.

2.

C. A. son

A conductor is placed in a magnetic field as shown.

$$\overrightarrow{B} = 0.25 \text{ T}$$

$$0.30 \text{ m} \quad 0.20 \text{ m}$$

$$I = 15 \text{ A}$$

What are the magnitude and direction of the magnetic force acting on this conductor when it carries a 15 A current?

4	* MAGNITUDE OF MAGNETIC FORCE	DIRECTION OF MAGNETIC FORCE
(A.	0.75 N	, To the left
B.	0.75 N	To the right
C.	· 1.1 N	To the left
D.	1.1 N	· To the right