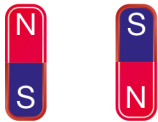


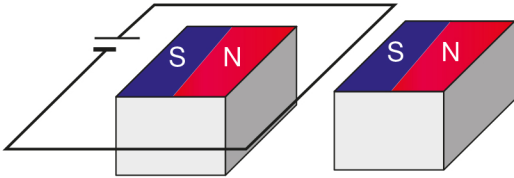
REVIEW IT!

Electromagnetism

- 1 Draw the magnetic field lines from the two magnets.

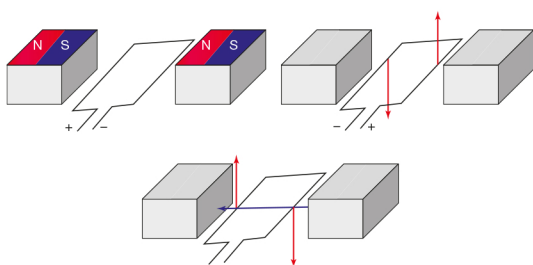


- 2 a Show on the diagram the direction of the current, I , the direction of the magnetic field, B , and the direction of movement of the wire, F .



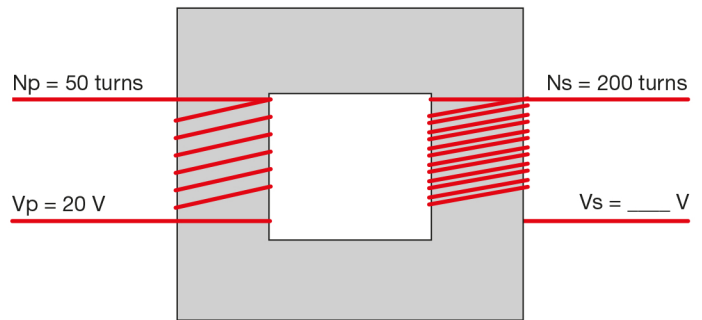
- b Suggest three changes to the system in the above system that would increase the force on the wire.

- 3 Complete the diagrams to show the missing poles, the direction of the magnetic fields and the direction of movement of the wire.



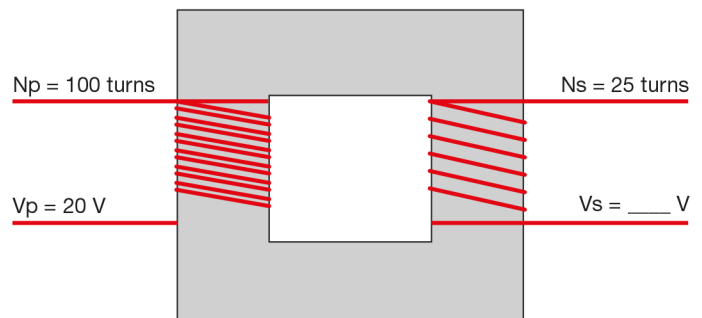
- 4 A copper wire of length 23 cm carrying a current of 0.43 A is immersed perpendicularly in a magnetic field of magnetic flux density 0.34 T. Calculate the force applied on the wire.

- H5 a i Calculate the potential difference in the secondary coil.



- ii Calculate the current in the secondary coil, knowing that $I_p = 8$ A.

- b i Calculate the potential difference in the secondary coil.



- ii Calculate the current in the secondary coil, knowing that $I_p = 3$ A.