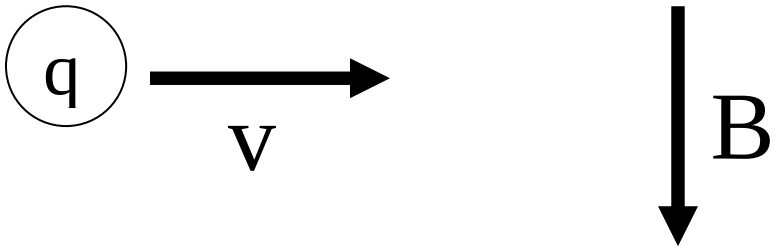
Practice Right Hand Rule #1

Remember: $\vec{\mathbf{F}}_B = q\vec{\mathbf{v}} \times \vec{\mathbf{B}}$

What direction is the force on a positive charge when entering a uniform B field in the direction indicated?

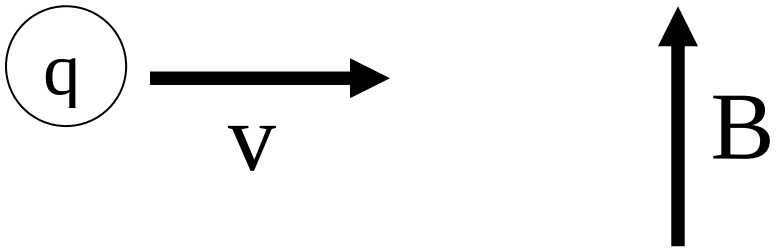


1) up
2) down
3) left
4) right
5) into page
6) out of page
7) there is no net force

Practice Right Hand Rule #2

Remember: $\vec{\mathbf{F}}_B = q\vec{\mathbf{v}} \times \vec{\mathbf{B}}$

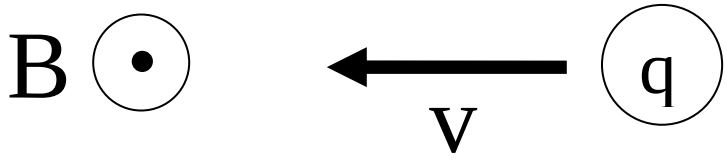
What direction is the force on a positive charge when entering a uniform B field in the direction indicated?



1) up
2) down
3) left
4) right
5) into page
6) out of page
7) there is no net force

Practice Right Hand Rule #3

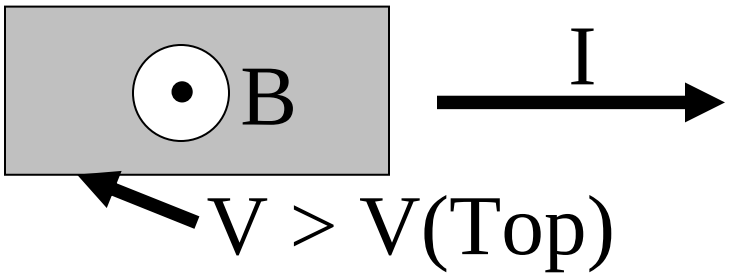
What direction is the force on a positive charge when entering a uniform B field in the direction indicated?



1) up
2) down
3) left
4) right
5) into page
6) out of page
7) there is no net force

Hall Effect

A conducting slab has current to the right. A B field is applied out of the page. Due to magnetic forces on the charge carriers, the bottom of the slab is at a higher electric potential than the top of the slab.



On the basis of this experiment, the sign of the charge carriers that make up the current in the slab is:

1) positive
2) negative
3) cannot be determined