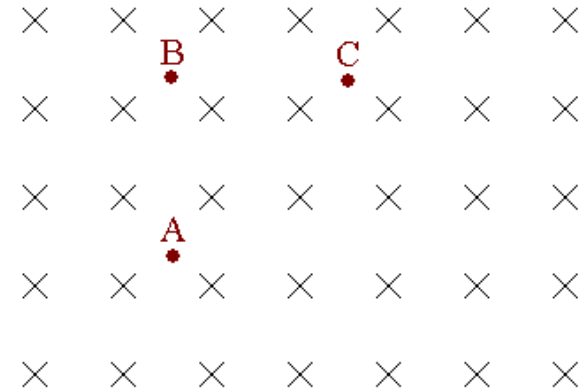


# CheckPoint 1a



Three points are arranged in a uniform magnetic field. The **B** field points into the screen.



A positively charged particle is located at point A and is stationary. The direction of the magnetic force on the particle is

**A.** right

**B.** left

**C.** into the screen

**D.** out of the screen

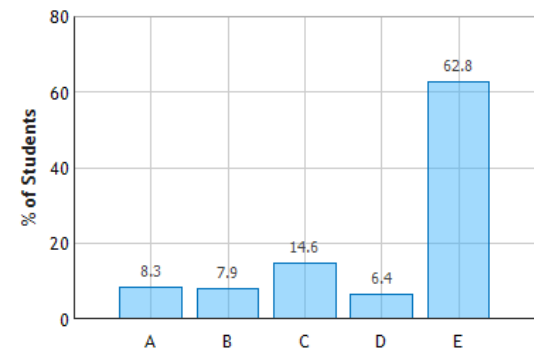
**E.** zero

$$\vec{F} = q\vec{v} \times \vec{B}$$

The particle's velocity is zero.

There can be no magnetic force.

Magnetic Forces: Question 1 (N = 815)



I found it really weird that the magnetic force is zero when a particle is stationary. Why do magnets stick to each other then? And it was said that the magnetic force is only the result of moving charges, but how do bar magnets work then?