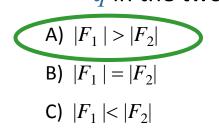
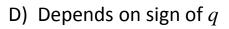
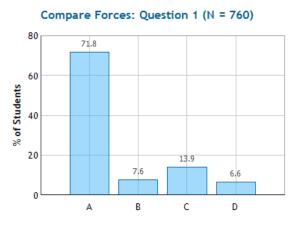
CheckPoint

+2

Compare the magnitude of the net force on q in the two cases.







"In case 1, no matter the sign of q the force on q from +Q and -Q will act in the same direction. Whereas in Case 2 the direction of the force of q from +Q and -Q act in opposite directions (cancel each other out). Therefore the magnitude of case 1 is bigger."

"The magnitudes of the forces are the same because the magnitudes of the charges are the same."

"In case 2 the symmetry cancels out all force on q."

"You have to know the charge of q because the middle charge is what will determine the force of the whole system"

 $F_2 = 0$