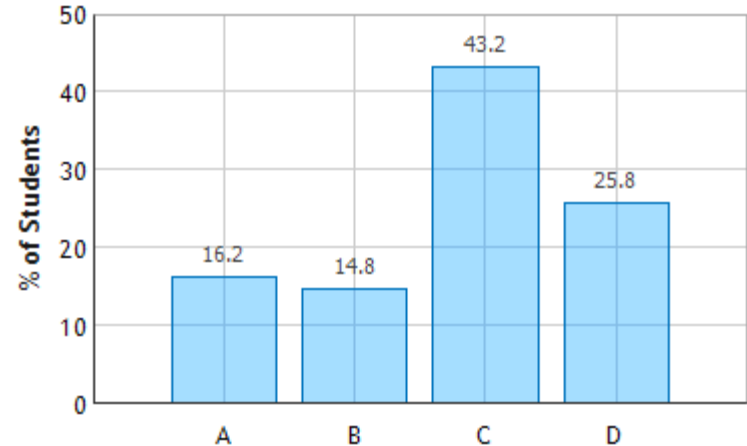
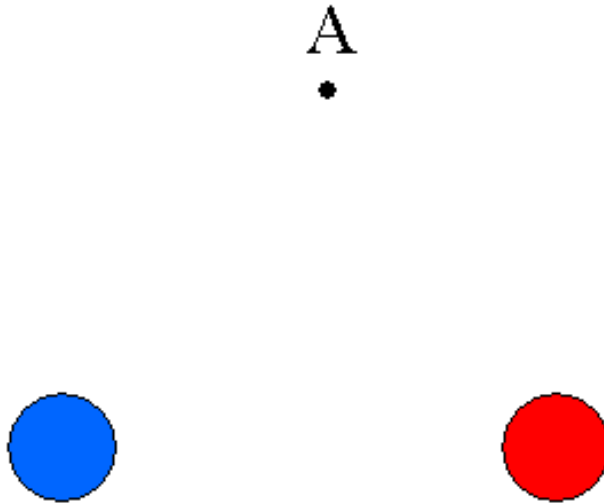


# Checkpoint 2



Two charges with equal magnitude but opposite sign are located at equal distances from the point labeled A



If a third charge is brought in from far away to point A, how does the potential energy of the collection of charges change?

Increases      Decreases      **Same**      Depends on sign of charge  
A                      B                      C                      D

C) "The potential energy will be positive for the charge of the same sign and negative for the charge of the opposite sign, yielding a potential that is the same relative to the first."

D) "The sign will determine if the sum of the potential energies will be a positive or a negative number."