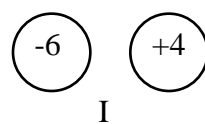
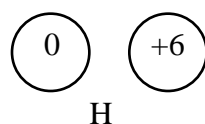
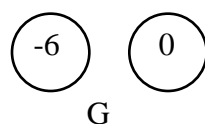
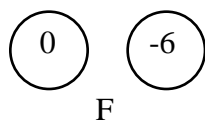
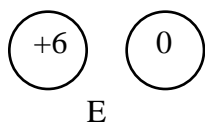
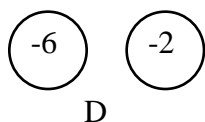
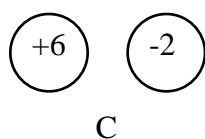
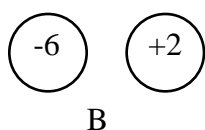
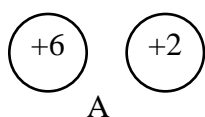


## Transfer of Charge in Conductors—Right Conductor <sup>146</sup>

In each of the following situations two conducting spheres with the same size are shown with an initial given number of units of charge. The two spheres are brought into contact with each other. After several moments the spheres are separated.

Rank the situations as to the quantity of charge on the second (right) sphere from the highest positive charge to the lowest negative charge after they have been separated. (Note that -6 is lower than -2.)



Highest      1\_\_\_ 2\_\_\_ 3\_\_\_ 4\_\_\_ 5\_\_\_ 6\_\_\_ 7\_\_\_ 8\_\_\_ 9\_\_\_      Lowest

Or, the charge on the second (right) sphere after contact will be the same for all cases. \_\_\_\_\_

Or, the second (right) sphere after contact will have no charge for all cases. \_\_\_\_\_

Please carefully explain your reasoning.

How sure were you of your ranking? (Circle one )

Basically Guessed

Sure

Very Sure

1      2      3      4      5      6      7      8      9      10

<sup>146</sup> J. Gundlach, B. Kaasa, U. Pandey, M. West