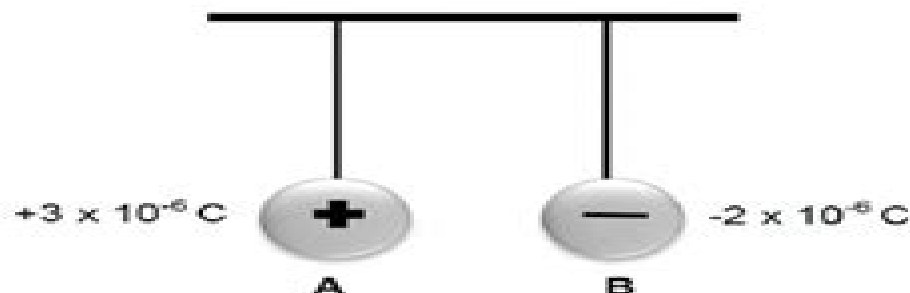


## Electrostatics worksheet lesson 1

### Question 1

Two small identical spheres, **A** and **B**, are suspended on long silk threads, as shown in the sketch below. The spheres carry charges of  $+3 \times 10^{-6} \text{ C}$  and  $-2 \times 10^{-6} \text{ C}$  respectively.



1.1 Which sphere has an excess of electrons and why (Aiii 3-4)?

The two spheres are allowed to touch.

1.2 Will the electrons be transferred from A to B or B to A (Ai 1-2)?

The spheres are now separated.

1.3 Calculate the new charge on sphere B (Aii 3-4).

1.4 Calculate the number of electrons transferred during contact (Aii 5-6).

# Electrostatics Smartlearner Grade 1

**Carmella Van Vleet**



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