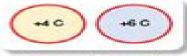
#### The electrostatic charge

- The charge on the electron the most common magnitude charge for chemical ions and accelerated charged particles in physics, is too small to be a practical unit, especially in electricity.
- The unit we therefore use is the coulomb (C) for measuring electrostatic charge, named after Charles Augustin de Coulomb, a French physicist who did many of the early experiments on electrostatics.
  - One coulomb (C) is the charge equal to the total charge on 6.25 x 10" electrons.
  - So, 1 coulomb = the charge on 6 250 000 000 000 000 000 electrons
  - Therefore the charge on 1 electron = <sup>1</sup>/<sub>6.26 × 10.96</sub> = −1.6 × 10<sup>-16</sup> C.
  - The charge on a proton is +1.6 × 10<sup>-19</sup> C.

## Sample Questions

- How many electrons are involved in producing the following charged objects?
  - (a) Object A with a charge of +4.0 mC.
  - (b) Object b with a charge of -2.5 MC.
  - (c) Object C with charge +6 × 10° C.
  - (d) Object D with charge -7.2 nC,
- 2. What is the charge on each of the following?
  - (a) Object which has a deficiency of 6.0 × 10<sup>36</sup> electrons.
  - (b) Object which has an excess of 7.5 × 10<sup>16</sup> electrons.
  - (c) Object which has a deficiency of 4.8 × 10<sup>10</sup> electrons.
  - (d) Object which has an excess of 6 × 10<sup>st</sup> electrons.
- Two charged spheres of identical size carry charges of +4 C and +6 C as shown.



- (a) What happens if these spheres are touched together?
- (b) What will be the charges on each when they are separated again?
- (c) How many electrons move from which sphere to which sphere?

 Two charged spheres of identical size carry charges of +3 C and -5 C as shown.



- (a) What happens if these spheres are touched together?
- (b) What will be the charges on each when they are separated again?
- (c) How many electrons move from which sphere to which sphere?
- Two charged spheres of identical size carry charges of -1.6 C and -3.2 C as shown.



- (a) What happens if these spheres are touched together?
- (b) What will be the charges on each when they are separated again?
- (c) How many electrons move from which sphere to which sphere?
- Three charged spheres of identical size carry charges of -2.0 C, +6.0 C and -1.0 C as shown.



Describe what happens if these spheres are all touched together?

# **Pearson Mastering College Physics Solution Manual**

Randall D. Knight, Brian Jones, Larry K. Smith, Stuart Field, Pawan Kahol, Marllin Simon

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