

20 Static Electricity

1. How many excess electrons are on a sphere with a charge of $-9.20 \times 10^{-17} \text{ C}$?
2. Two charges, q_1 and q_2 , are separated by a distance, d , and exert a force, F , on each other. Identify what new force will exist if
 - a. q_1 is doubled and q_2 is cut in half.
 - b. q_1 is tripled and q_2 is doubled.
 - c. q_2 is cut in half and d is tripled.
3. An electric force of 0.030 N acts between two charges which are 7.2 cm apart. Calculate the force acting between the charges if the distance between them is reduced to 1.5 cm .
4. Two negative charges of $-24 \mu\text{C}$ each are separated by 6.0 cm . What force exists between the charges?
5. Two charged spheres are separated by 315 mm . What is the force between them if the charge on one sphere is $+9.6 \times 10^{-7} \text{ C}$ and the charge on the other sphere is $-2.2 \times 10^{-5} \text{ C}$?
6. Determine the electrostatic force of attraction between a proton and an electron that are separated by $7.5 \times 10^{-8} \text{ m}$.
7. A positive charge of $3.4 \times 10^{-7} \text{ C}$ exerts a repulsive force of 9.0 N on a second charge 4.0 cm away. Determine the second charge.
8. An attractive force of 0.87 N exists between a positive charge of $5.0 \mu\text{C}$ and a negative charge of $-1.5 \mu\text{C}$. What is the distance between the charges?
9. Two identical point charges exert a repulsive force of $6.0 \times 10^{-3} \text{ N}$ when separated by a distance of 6.5 cm . Calculate the charge of each.
10. Two positively charged spheres, A and B, are separated by 0.25 m . The charge on sphere A is one third the charge on sphere B. Find the charge on each sphere if the force of repulsion is 125 N .
11. Three particles are placed in a straight line. The left particle has a charge of $+2.0 \times 10^{-5} \text{ C}$, the middle particle has a charge of $-4.0 \times 10^{-6} \text{ C}$, and the right particle has a charge of $+3.0 \times 10^{-5} \text{ C}$. The left particle is 56 mm from the middle particle and the right particle is 42 mm from the middle particle. Find the net force on the left particle.
12. A positive charge of $23 \mu\text{C}$ is 15 cm directly north of a positive charge of $38 \mu\text{C}$. A third positive charge of $71 \mu\text{C}$ is 45 cm directly west of the $38\text{-}\mu\text{C}$ charge. Determine the net force on the $38\text{-}\mu\text{C}$ charge.

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