

1.1 V/m

27.0 V/m

26.4 V

Conclusion Questions and Calculations:

- 1. Closer to a point charge, the electrostatic field strength is *stronger / weaker*.
- 2. Placed exactly between **two oppositely**-charged point charges, a test charge (the sensor) will show *zero / minimum / maximum* force.
- 3. Placed exactly between **two similar**-charged point charges, a test charge (the sensor) will show *zero / minimum / maximum* force.
- 4. Placed exactly on a point charge, the sensor will show zero / minimum / maximum field strength.
- 5. A balloon is electrostatically charged with 1.4 μC (microcoulombs) of charge. A second balloon 23 cm away is charged with -2.1 μC of charge. The force of *attraction / repulsion* between the two charges will be: