

- 19** Two identical spherical drops of water, each carrying a charge of $+3.0 \times 10^{-11} \text{ C}$ and with an electric potential of 500 V on its surface, combine to form a single spherical drop.

What is the approximate potential on the surface of the new drop formed?

- A** 1000 V **B** 790 V **C** 540 V **D** 500 V