

Quiz 3

Two identical uncharged capacitors are connected in parallel and then connected to a battery. Draw below the schematic diagram of this circuit. The battery transfers a charge Q to this parallel combination. For each of the four plates that make up the two capacitors report (i.e., label the plate with) the charge on that plate. If the battery produces a voltage V , report the voltage across each capacitor.

Two identical uncharged capacitors are connected in series and then connected to a battery. Draw below the schematic diagram of this circuit. The battery transfers a charge Q to this series combination. For each of the four plates that make up the two capacitors report (i.e., label the plate with) the charge on that plate. If the battery produces a voltage V , report the voltage across each capacitor.

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