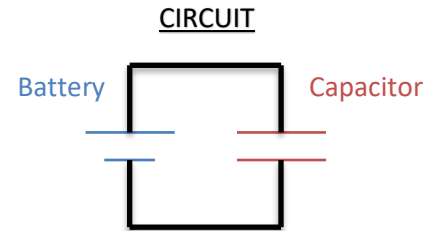


CONCEPT: CAPACITORS AND CAPACITANCE

- CAPACITOR: Two nearby surfaces of _____ & _____ charge → stores [**POTENTIAL** | **KINETIC**] energy

- Connecting a capacitor to a battery produces a simple CIRCUIT
 - “Source” of moving charges comes from a _____
 - Voltage of battery = voltage of capacitor



- CHARGE on capacitor → $Q = \underline{\hspace{2cm}}$
 - CAPACITANCE (C) measures the _____ of the capacitor.

- CAPACITANCE is defined as

$$C = \underline{\hspace{2cm}} \quad \text{- Units are F (Farads)}$$

- Larger capacitance → [**LARGER** | **SMALLER**] the charge stored

EXAMPLE: What is the charge on the capacitor in the following figure?

