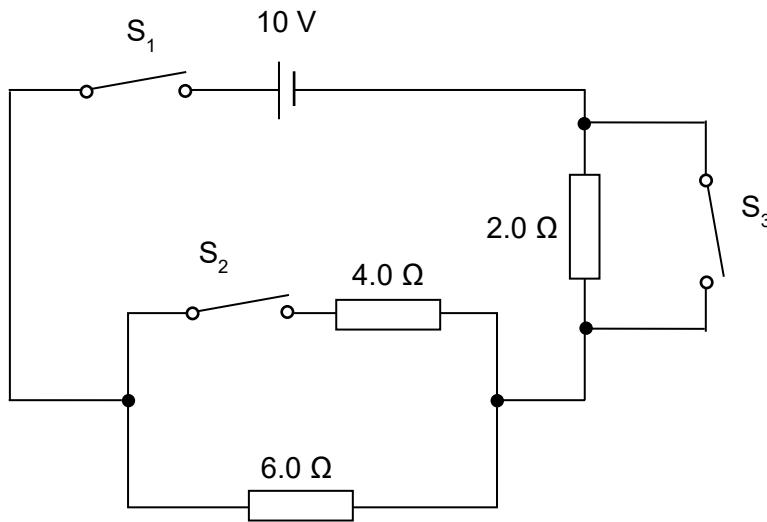


- 21** A battery of e.m.f. 10 V and negligible internal resistance is connected to a network of resistors and switches.



At time $t = 0$, switches S_1 , S_2 and S_3 are closed.

At time $t = 1.0$ minute, S_2 and S_3 are opened.

At time $t = 2.0$ minute, S_1 is opened.

How much charge passes through the battery during the 2.0 minutes before S_1 is opened?

A 211 C

B 325 C

C 350 C

D 540 C

