Recitation 4 Chapter 17

Problem 40. A $C_1 = 7.7 \ \mu\text{F}$ capacitor is charged by a V = 125 V battery (Fig. 17-29a) and then is disconnected from the battery. When this capacitor (C_1) is other connected (Fig. 17-29b) to a second (initially uncharged) capacitor, C_2 , the final voltage on each capacitor is $V_2 = 15 \text{ V}$. What is the value of C_2 ? [*Hint*: charge is conserved.]

