

65. (a) They each store the same charge, so the maximum voltage is across the smallest capacitor. With 100 V across $10\ \mu\text{F}$, then the voltage across the $20\ \mu\text{F}$ capacitor is 50 V and the voltage across the $25\ \mu\text{F}$ capacitor is 40 V. Therefore, the voltage across the arrangement is 190 V.
- (b) Using Eq. 26-21 or Eq. 26-22, we sum the energies on the capacitors and obtain $U_{\text{total}} = 0.095\ \text{J}$.