

Name _____ Period _____

Physics
Static Electricity Quiz #4

1. An average force of 23.4 N is applied to a balloon with a charge of 3.26 μC . The balloon is moved 3.26 m from one plate to another. What potential difference does the balloon have?

2. Sketch a circuit with three capacitors in series, 12 μF , 27 μF and 64 μF , along with a 9.0 V battery. What is the charge on each capacitor and what is the total charge?

3. Sketch a circuit with three capacitors in parallel, 12 μF , 27 μF and 64 μF , along with a 9.0 V battery. What is the charge on each capacitor and what is the total charge?