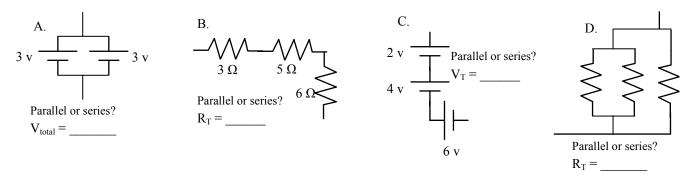
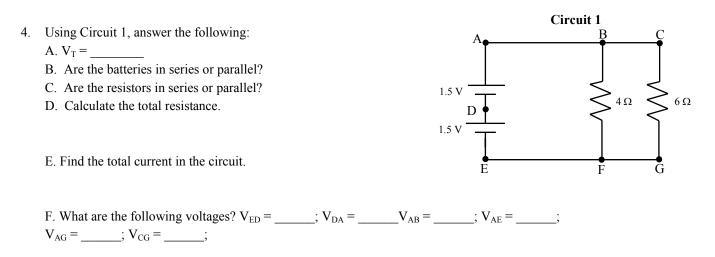
Electricity 5

1. Identify the following as parallel or series and find the total resistance or voltage.



- 2. If you connected A and B above, what would be the total current in the circuit?
- 3. If you connected C and D above, what would be the total current in the circuit?

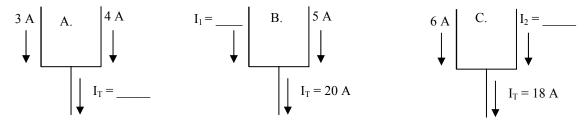


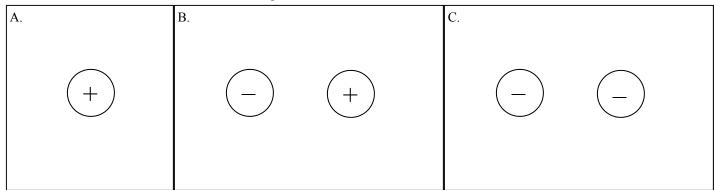
G. Since you know the voltage across the 4 Ω resistor, find the current running through it.

H. Likewise, find the current through the 6 Ω resistor.

I. How does the voltage in each of the resistors compare with the total current in the circuit.

5. Understanding junctions. Fill in the missing information on the following graphics:





- 7. If a circuit has 3 A of current, how much charge moves in 10 seconds?
- 8. Using your answer from #7, how many electrons moved in that 10 seconds?
- 9. Acids, bases and ionic compounds all ______ in water, creating s ______ that have ions. These ions are neutral or charged? Thus they will do what for electricity?

