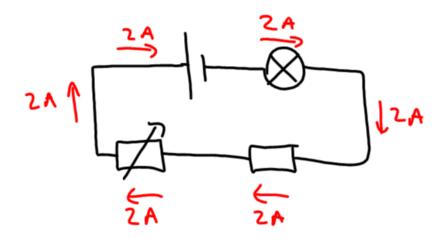
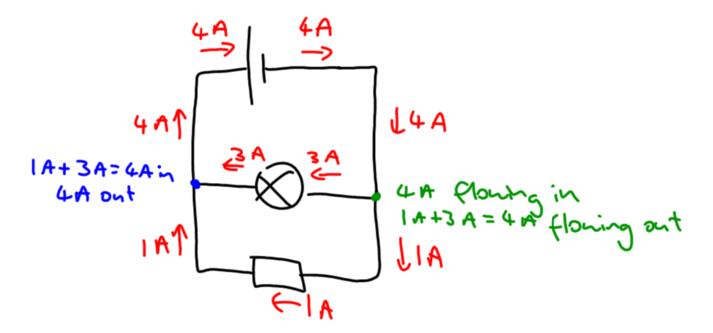
Circuit Rules

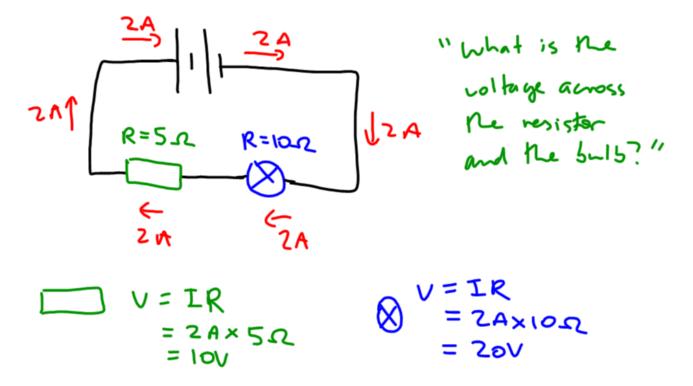
Rule 1. If there are no branches in a circuit (i.e. it is a series circuit) then the current is the same all through the circuit.



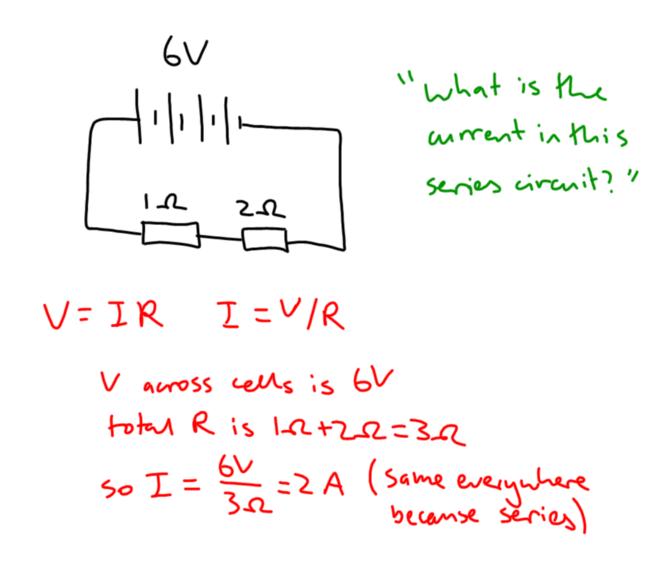
Rule 2. At a branch in a circuit, the total current flowing into the branch must equal the total current flowing out of the branch.



Rule 3. For any individual component, V = IR. Where V is the voltage across that particular component, I is the current through that particular component, and R is the resistance of that particular component.



Rule 4. For a simple series circuit, you can also use V = IR where V is the voltage of the cells, I is the current in the circuit (same everywhere) and R is the TOTAL resistance in the circuit.



Rule 5. If you trace your finger around a closed loop in a circuit, the total voltage gained through any cells equals the total voltage lost through

any components.

