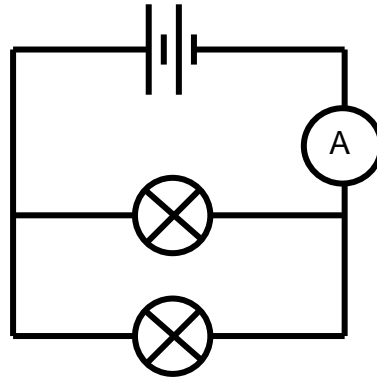


ELECTRICITY HOMEWORK 2

In the circuit below, both bulbs are the same.

1. Is this a series or parallel circuit?



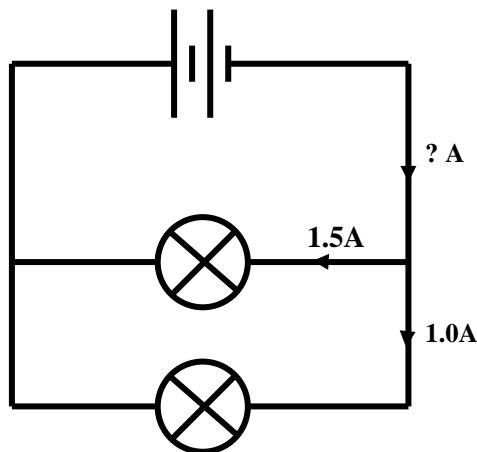
1

2. (a) If one bulb is unscrewed, what happens to the other bulb? 1

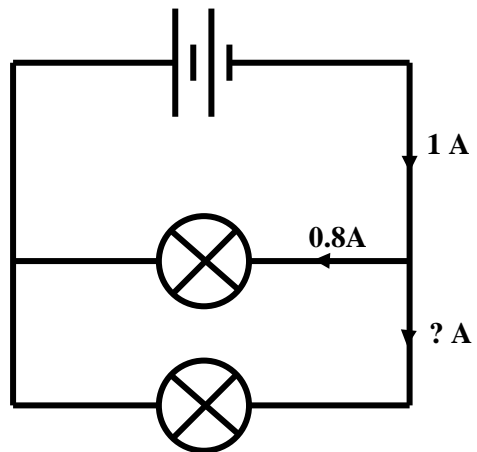
(b) Explain your answer to part (a) 1

3. If the reading on the ammeter is 0.38A, what should be the current in the top bulb? 1

4. In each of the circuit diagrams below, write down the missing current reading.



Circuit 1

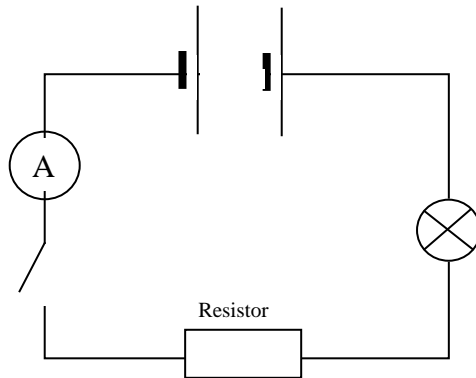


Circuit 2

2

PTO

5. A pupil set up the experiment below, and recorded her results in the table.



Resistance (ohms)	Current (amps)
1.5	0.20
3	0.19
5	0.18
10	0.14
18	0.11

- (a) State a suitable aim for this experiment. 1
- (b) As resistance increases, what happens to the current? 1
- (c) What do you think happened to the brightness of the bulb as the resistance increased? 1
- (d) Suggest a value for current if the value of resistance is 14 Ohms 1