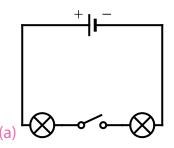
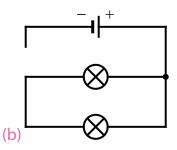
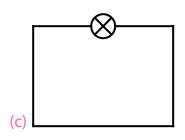
Current and Circuits Practice

- 1 Which of these four situations are closed circuits?
 - (a) The kettle is off.

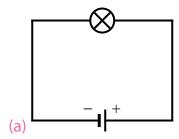
- (c) A remote controlled plane that is turned on.
- (b) The power button on the remote control is being pressed.
- (d) A washing machine that is turned off.
- 2 Which of these circuits are closed?

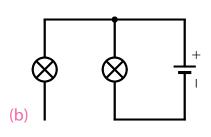


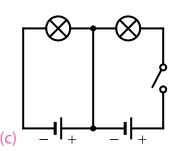




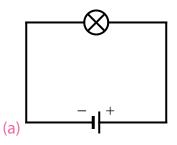
3 Draw around the closed loop in these circuits.

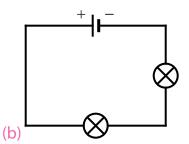


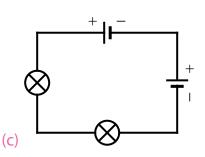




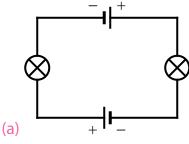
4 Draw arrows on the circuits in the direction of the current.

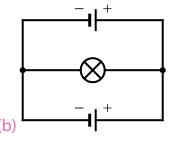


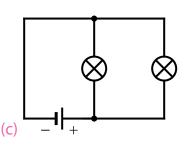




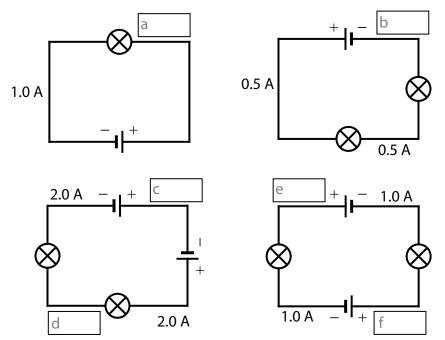
5 Draw arrows on the circuits in the direction of the current.



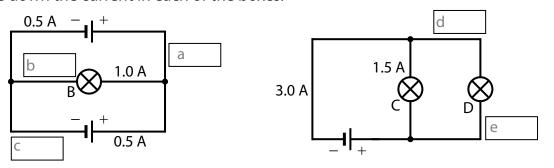




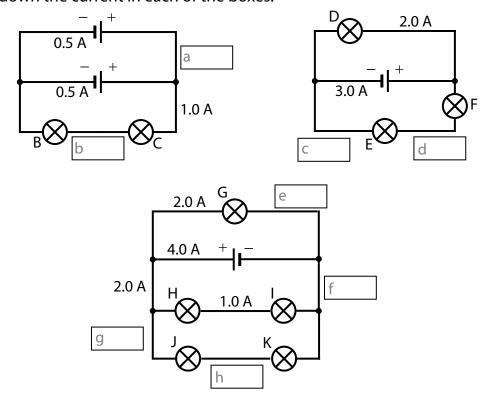
6 Write down the current in each of the boxes.



7 Write down the current in each of the boxes.



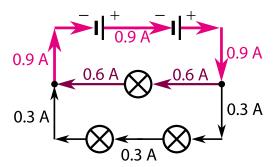
8 Write down the current in each of the boxes.



9 Go back to the circuits in questions 7 and 8. Label which light bulbs are in **series** and which are in **parallel** with the other bulbs in the circuits.

10	Fill in the sentences with the words brighter , current , light up , more .					
	A light bulb will	if there is a	a	passing through it	. The	current passes
	through a light bulb, th	the light bulb will shine.				

- 11 Go back to the circuits in questions 7 and 8. The light bulbs are identical in those circuits. Label which light bulbs will have the same brightness, which will be the brightest and which will be the dimmest.
- 12 What have you noticed about current and light bulbs while working through these questions? Fill in the sentences with the words **series**, **parallel**, **shared**, **same**, **dimmest**.



- (a) The current through two light bulbs in **series** will be the _____. They will have the _____ brightness, if they are identical.
- (b) The current through light bulbs in **parallel** will be _____. The bulb with the least amount of current will be the _____, if they are identical.
- 13 Label which light bulbs will have the same brightness, which will be the brightest and which will be the dimmest.

