Answer ALL questions	Answer	ALL (auestions
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- 1 Mains electricity is used in circuits at home.
 - (a) Double insulation is needed for safety when there is

(1)

- A no circuit breaker
- **B** no earth connection
- **D** no switch
- (b) A fuse is used so that

(1)

- A an earth connection is not needed
- ☑ B the appliances are more efficient
- ☑ C the circuit cannot overheat if there is a fault
- **D** the user cannot touch a live wire
- (c) Most lamps at home have their own switch.

This is because the lamps are connected

(1)

- **A** in parallel
- **B** in series
- **D** to an earth wire

(Total for Question 1 = 3 marks)