

- 3 The photograph shows an electrical appliance called a toaster.



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- (a) The toaster has a power of 1800W when operating at a voltage of 230V.

(i) State the equation linking power, current and voltage.

(1)

(ii) Show that the current in the toaster is about 8 A.

(2)

(iii) Which fuse rating would be suitable for the toaster?

(1)

- ☐ **A** 1 A
- ☐ **B** 3 A
- ☐ **C** 7 A
- ☐ **D** 13 A



(b) The toaster uses mains electricity.

Mains electricity provides alternating current.

(i) Describe the difference between alternating current (a.c.) and direct current (d.c.).
(2)

(ii) State a source of direct current.
(1)

(Total for Question 3 = 7 marks)

