

- (i) The student uses the results in the table to see if shape has affected heat transfer.

Which containers should the student compare to do this?

Give a reason for your answer.

(1)

- (ii) Explain why the temperature of the water in both containers **A** and **B** fell by the same amount.

(2)

- (iii) A central heating system has several radiators joined together. The hot water goes from the boiler, through each radiator in turn and then back to the boiler for reheating.

Give **one** reason, other than appearance, why it might **not** be a good idea to paint radiators black.

(1)

(Total 4 marks)