Answer ALL questions.

Some questions must be answered with a cross in a box ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.

1 A student uses a watt-meter to measure the power of electrically-operated appliances.

(a) State what is meant by the term **power**.

(1)

.....

.....

(b) The student measures the mean power output (in watts) for six different appliances.

Diagram 1 shows their results.

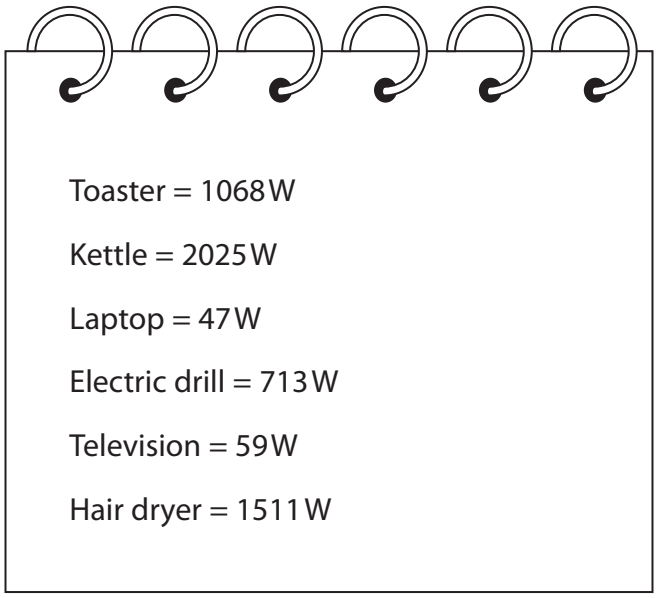

Diagram 1

Draw a results table for the student's results.

(2)

(c) The student measures the power output for a different appliance.

Diagram 2 shows their raw data.

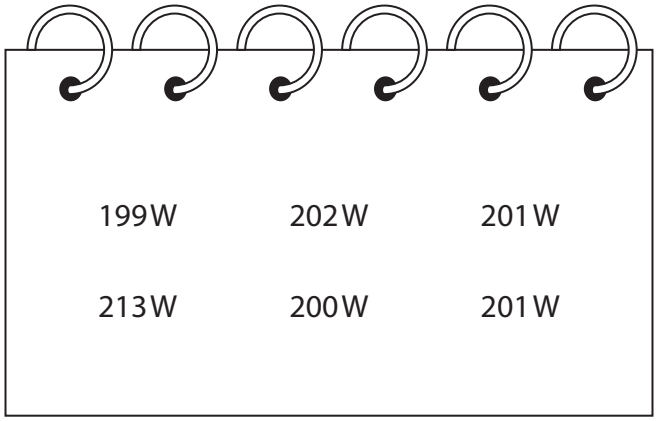

Diagram 2

(i) The student identifies an anomalous result in their data.

Draw a circle around the anomalous result.

(1)

(ii) Calculate the mean power output for this appliance.

Give your answer to three significant figures.

(3)

mean power output = ... W

(Total for Question 1 = 7 marks)