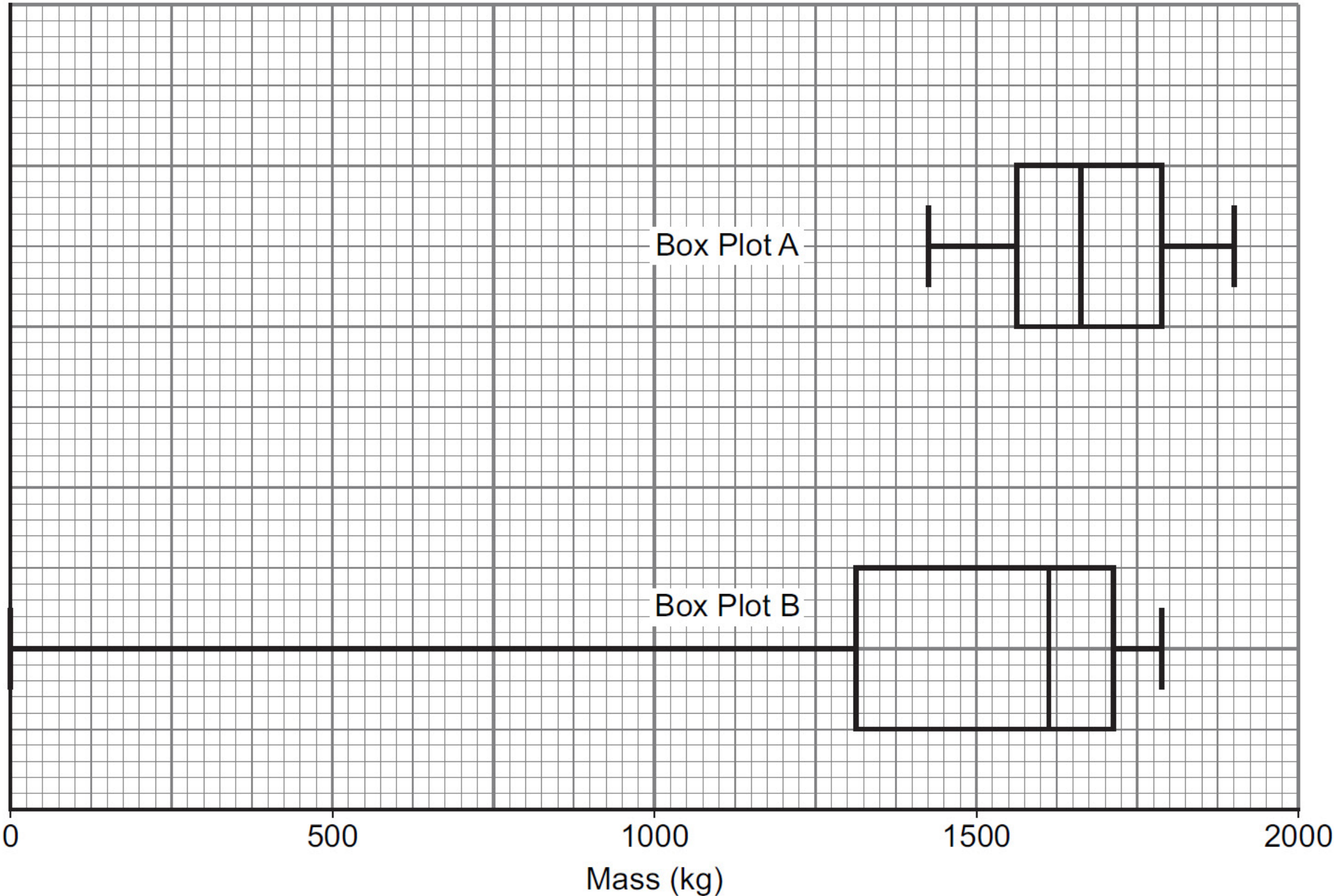


19 A comparison of the masses (in kg) of convertible cars was made using the Large Data Set.

A sample of 20 masses was chosen from both the 2002 data and the 2016 data.

The masses of the 20 cars in each sample were used to create a box plot for each year.

The box plots were labelled Box Plot A and Box Plot B as shown in the diagram below.



- 19 (a) Estimate the median of the masses from Box Plot A [1 mark]
- 19 (b) It is claimed that Box Plot B **must be** incorrectly drawn.
- 19 (b) (i) Give a reason why this claim was made. [1 mark]
- 19 (b) (ii) Comment on the validity of this claim. [1 mark]
- 19 (c) It is claimed that Box Plot B **must be** from the 2002 data. Give a reason why this claim is correct. [1 mark]