

A research student weighed 40 eggs in grams and recorded the results. The following box and whisker diagram shows a summary of the results where L and U are the lower and upper quartiles respectively.



The interquartile range is 20 grams and there are no outliers in the results.

(a) Find the minimum possible value of U .

[3]

(b) Hence, find the minimum possible value of L .

[2]

$$a) IQR = U - L$$

$$x > Q_3 + 1.5 IQR \rightarrow U + 1.5(20)$$

or

$$x < Q_1 - 1.5 IQR$$

Ib Math Studies Paper 1 Study Guide

Sebastian Brünink



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