

FURTHER MATHEMATICS TRIAL EXAMINATION 2 SOLUTIONS 2020

(Adjusted Study Design)

SECTION A - Core

Data analysis

Question 1 (5 marks)

- a. The modal pH is 7.3.
- 18 rivers have a pH between 6.5 and 8.0.
- c. The median is the middle score. It lies between the 12th and 13th scores i.e. between 7.1 and 7.3. The median is 7.2.
- d. Start by finding the lower fence. lower fence = $Q_1 - 1.5 \times IQR$ (formula sheet) = $6.7 - 1.5 \times (7.7 - 6.7)$ =5.2 (1 mark)

Since 5.3 > 5.2 then 5.3 cannot be an outlier.

Question 2 (5 marks)

The variable year, is a categorical variable.
The variable concentration of phosphorus is a numerical variable.
So one of these variables is a numerical variable.

b. i.

Note that the minimum value of the distribution is 0.03 and not 0.07.

- ii. The distribution is negatively skewed with a possible outlier.
- Both the mean and the median would be appropriate because the distribution is symmetric and contains no outliers. (I mark)
- Method 1 compare the medians

The parallel boxplots show that the concentration of phosphorus and the year in which the rivers were tested are associated because the concentrations increased with the years. In 2010 the median concentration was 0.10 and in 2017 it was 0.20.

(I mark)

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