Outside of Class

Statistics Lesson 4: Mead, Median, and Mode (Part 2)

1. 120 Mathematics students in a school sat an examination. Their scores (given as a percentage) were summarized on a cumulative frequency diagram. This diagram is given below.

 

(a) Complete the grouped frequency table for the students.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ExaminationScore *x* (%) | 0 ≤ *x* ≤20 | 20 < *x* ≤ 40 | 40 < *x* ≤ 60 | 60 < *x* ≤ 80 | 80 < *x* ≤ 100 |
| Frequency | 14 | 26 |  |  |  |

(3)

(b) Write down the mid-interval value of the 40 < *x* ≤ 60interval.

(1)

(c) Calculate an estimate of the mean examination score of the students.

(2)

(Total 6 marks)