K Education Centre

KEC

GCSE Maths - Higher

Statistics : Sampling and more complex diagrams -3

Assignment Questions

Q1 : The table shows some data about the monthly income of 80 families.

Monthly Income (£)	Frequency
1000 - 2000	15
2001 - 3000	35
3001 - 4000	20
4001 - 5000	6
5001 - 6000	4

a) Draw a cumulative frequency graph for the data
b) Estimate the median monthly income
c) Estimate lower and upper quartiles.
d) The lowest monthly salary was £1500 and highest salary was £5800

Draw a box plot to show the distribution of the incomes.

Q2: A group of men and women had their heights measured and recorded in the table given below.

Heights of men (cm)	Height of women (cm)
165	171
178	155
180	165
175	148
185	160

a) Draw a box plot for each set of data on the same scale.
b) Compare the two distributions.

Q3: Table shows the lengths of some time students took to run a cross country race.

Time taken , t (minutes)	Frequency
40 < t ≤ 50	5
50 < t ≤ 55	12
55 < t ≤ 60	18
60 < t ≤ 70	15
70 < t ≤ 90	8

Draw a histogram to show the information in the table.