K Education Centre

GCSE Maths - Higher

Statistics : Sampling and more complex diagrams -2

Assignment Questions

Statistics : Sampling and more complex diagrams -2

Q1 : Table shows how many people were present in seminar during winter term .

Number of people attending	1-3	4-6	7-9	10 -12
Frequency	16	10	6	2

    a) Draw frequency polygon for above table.

    b) Calculate the estimated mean number of people attending the seminar.

Q2: Following is the data of patients waiting time in a hospital during weekends.

Time , m (minutes)	$0 < m \leq 10$	$10 < m \leq 20$	$20 < m \leq 30$	$30 < m \leq 40$	$40 < m \leq 50$	$50 < m \leq 60$
Saturday	5	8	17	9	7	4
Sunday	9	8	16	3	2	1

    a) On the same pair of axes , draw frequency polygon for above data.

    b) What is average amount of time spent during each day.

Q3: 48 people went on a coach trip to a sea side. The grouped frequency table shows the information about their ages.

Age , a (years)	Frequency
$0 < a \leq 10$	4
$10 < a \leq 20$	6
$20 < a \leq 30$	10
$30 < a \leq 40$	22
$40 < a \leq 50$	4
$50 < a \leq 60$	2

a) Draw a cumulative frequency graph
b) Use your graph to estimate median age
c) Use your graph to estimate interquartile range.