

K Education Centre

GCSE Maths - Higher

Statistics : Sampling and more complex diagrams -1

Assignment Questions

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Statistics : Sampling and more complex diagrams -1

Q1 : Thomas record the time taken in hours and the average speed in mph , for several different journeys.

Time (h)	0.5	0.8	1.1	1.3	1.6	1.75	2	2.4
Speed(mph)	42	38	27	30	22	23	21	9

- a) Draw the line of best fit
- b) Estimate the average speed for a journey of 90 minutes.

Q2: Give examples of negative, positive and no correlation.

Q3: Give steps for testing a hypothesis.

Q4: You are going to conduct a survey among an audience of 50 ,000 people at a football match. How would you choose the sample.

Q5 : A manager wants to conduct survey on employee motivation among all the employees. Table shows number of employees in four groups.

	Male	Female	Total
Full- Time	142	158	300
Part – time	108	92	200
			400

He wants to sample 40 employees, using the same proportion from each group. Complete a table to show sample of employees in the sample.