

Topic Test 1 Mark Scheme

Statistical measures - Higher

Q	Answer	Mark	Comments
1	Secondary and Primary respectively	B1	
2(a)	Bar chart	B1	
2(b)	Scatter diagram	B1	
3(a)	270	B1	
3(b)	The owners salary will bias the data as it is much bigger than anyone else	B1	
4	Reference to collecting data of time spent revising and mark in test	B1	
	Reference to plotting this data on a scatter graph	B1	
	Reference to how the scatter graph can be analysed, eg drawing a line of best fit to see the correlation	B1	
	Reference to how the correlation will prove or disprove the hypothesis, ie a positive correlation would indicate that the hypothesis is true.	B1	
5(a)	Midpoints seen, 52.5, 57.5, 62.5, 67.5 and 72.5 and sum of products of midpoint \times frequency (3190)	M1	Allow one error
	Their Sum \div 50	M1dep	
	63.8	A1	
5(b)	That all values in any group are equal to the midpoint	B1	oe

Q	Answer	Mark	Comments
6(a)	$22 \times 43\,697 \div 170$	M1	
	5655	A1	
6(b)	That the sample is representative	B1	
7(a)	[37, 39]	B1	
7(b)	[15, 17]	B1	
7(c)	The university students were quicker overall with a lower median	B1	
	The high school students were more consistent with a lower IQR	B1	