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## GCSE STATISTICS 8382/1H

Higher Tier Paper 1

Mark scheme

June 2022

Version: 1.0 Final



Mark schemes are prepared by the Lead Assessment Writer and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation events which all associates participate in and is the scheme which was used by them in this examination. The standardisation process ensures that the mark scheme covers the students' responses to questions and that every associate understands and applies it in the same correct way. As preparation for standardisation each associate analyses a number of students' scripts. Alternative answers not already covered by the mark scheme are discussed and legislated for. If, after the standardisation process, associates encounter unusual answers which have not been raised they are required to refer these to the Lead Examiner.

It must be stressed that a mark scheme is a working document, in many cases further developed and expanded on the basis of students' reactions to a particular paper. Assumptions about future mark schemes on the basis of one year's document should be avoided; whilst the guiding principles of assessment remain constant, details will change, depending on the content of a particular examination paper.

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#### **Glossary for Mark Schemes**

GCSE examinations are marked in such a way as to award positive achievement wherever possible. Thus, for GCSE Statistics papers, marks are awarded under various categories.

If a student uses a method which is not explicitly covered by the mark scheme the same principles of marking should be applied. Credit should be given to any valid methods. Examiners should seek advice from their senior examiner if in any doubt.

М	Method marks are awarded for a correct method which could lead to a correct answer.
A	Accuracy marks are awarded when following on from a correct method. It is not necessary to always see the method. This can be implied.
В	Marks awarded independent of method.
ft	Follow through marks. Marks awarded for correct working following a mistake in an earlier step.
SC	Special case. Marks awarded for a common misinterpretation which has some mathematical worth.
M dep	A method mark dependent on a previous method mark being awarded.
B dep	A mark that can only be awarded if a previous independent mark has been awarded.
oe	Or equivalent. Accept answers that are equivalent. eg accept 0.5 as well as $\frac{1}{2}$
[a, b]	Accept values between a and b inclusive.
[a, b)	Accept values a ≤ value < b
3.14	Accept answers which begin 3.14 eg 3.14, 3.142, 3.1416
Use of brackets	It is not necessary to see the bracketed work to award the marks.

Examiners should consistently apply the following principles

#### Diagrams

Diagrams that have working on them should be treated like normal responses. If a diagram has been written on but the correct response is within the answer space, the work within the answer space should be marked. Working on diagrams that contradicts work within the answer space is not to be considered as choice but as working, and is not, therefore, penalised.

#### Responses which appear to come from incorrect methods

Whenever there is doubt as to whether a student has used an incorrect method to obtain an answer, as a general principle, the benefit of doubt must be given to the student. In cases where there is no doubt that the answer has come from incorrect working then the student should be penalised.

#### Questions which ask students to show working

Instructions on marking will be given but usually marks are not awarded to students who show no working.

#### Questions which do not ask students to show working

As a general principle, a correct response is awarded full marks.

#### Misread or miscopy

Students often copy values from a question incorrectly. If the examiner thinks that the student has made a genuine misread, then only the accuracy marks (A or B marks), up to a maximum of 2 marks are penalised. The method marks can still be awarded.

#### **Further work**

Once the correct answer has been seen, further working may be ignored unless it goes on to contradict the correct answer.

#### Choice

When a choice of answers and/or methods is given, mark each attempt. If both methods are valid then M marks can be awarded but any incorrect answer or method would result in marks being lost.

#### Work not replaced

Erased or crossed out work that is still legible should be marked.

#### Work replaced

Erased or crossed out work that has been replaced is not awarded marks.

#### Premature approximation

Rounding off too early can lead to inaccuracy in the final answer. This should be penalised by 1 mark unless instructed otherwise.

#### **Continental notation**

Accept a comma used instead of a decimal point (for example, in measurements or currency), provided that it is clear to the examiner that the student intended it to be a decimal point.

Q	Answer	Marks	Comments
1	0.05	B1	

Q	Answer	Marks	Comments
2	skew	B1	

Q	Answer	Marks	Comments
3	$\frac{1}{3}$	B1	

Q	Answer	Marks	Comments
4	stratification	B1	

Q	Answer	Marks	Comments
5(a)	[38, 42]	B1	

Q	Answer	Marks	Comments
	For: the general trend is (mainly) downwards/decreases or negative correlation	B1	oe general statement
5(b)	Against: some older ages are more likely than younger ones with example, eg 61+ compared to 60 or references specific ages which show statement is incorrect or correct reference to peaks/spikes/gradients	B1	oe specific exception

Additional guidance for this question is on the next page

	Additional Guidance		
	Ignore any non-contradictory or irrelevant statements		
	If answers reference numbers rather than percentages then B1Max, eg		
	The numbers of people passing decreases over time and more people aged 17 pass than aged 16	B0B1	
	If values are used, they must be between the correct graduations given on vertical axis unless clearly on a given value, eg		
	Age 42 given as 36(%) is acceptable as value [32, 37]		
	Age 23 given as 47(%) is the only possible correct value		
	For:		
	Percentage decreases as age increases		
- 4 \	Lower percentage of over 40s passed than under 40s		
5(b)	From 24 to 42 the pass rate decreases	B1	
	About 48% of 18s pass compared to only 37% of 60+ (implies a trend)	B1	
	Less likely to pass at 40 than 30 (does not imply a trend)	B0	
	Line of best fit is negative	B0	
	A higher proportion of older people fail (repeating the original statement)	B0	
	Against:		
	Pass rate rises and fall	B1	
	Lines goes up at 60+	B1	
	More likely to pass at 16 than 18	B1	
	More likely to pass at 16 than 17	B0	
	Some 40 to 60s are higher than expected	B0	
	Reference to unreliable or inaccurate source/graph/data without another correct evaluation	В0	



Q	Answer	Marks	Comments		
6(b)	Any correct comparison of populations in the two years, eg The population (aged 20-29) is greater (in 1961 than in 1851)	B1	oe eg the number of male (aged 20-29) is greater 1851)	es (or females) (in 1961 than in	
	Any correct comparison between genders, eg In 1851, there were more females than males (in the 20-29 age group) or (In 1961,) there were more males than females (in the 20-29 age group) or The gender gap / range has decreased or The gender gap has reversed	B1	oe		
	Additional Guidance				
	Condone any incorrect calculations				
	Ignore any non-contradictory or irrele				
	The males have gone up, the female gone up by more than the females	B1B0			
	There's a bigger population (now)	B1			
	There was a smaller population before			B1	
	They've both more than doubled			B1	
	There was a smaller population in 18	351		B1	
	There was a smaller population			B0	

Q	Answer	Marks	Comments		
	$\frac{150000-135000}{1000}\!\times\!0.05$	M1	oe		
7(a)(i)	0.75	A1	oe eg 75%		
	Additional Guidance				
	Do not ignore further work, eg				
	15 × 0.05 = 0.75, answer 99.25			M1A0	
	0.75%			M1A0	

Q	Answer	Marks	Comments		
7(a)(ii)	their 0.75 $\times$ their 0.75	M1	oe		
	9 16 or 0.5625 or 0.56 or 0.563 or 56.25% or 56% or 56.3%	A1ft	oe equivalent fraction ft their 7(a)(i)		
	Answers must be correct to 2sf or botton				
	Ignore any attempt to round after th				
	0.5625 = 0.562			M1A1	

Q	Answer	Marks	Comme	nts	
	Selling in one month is independent to selling in another	B1	oe eg months are independent		
	Ad	ditional Gu	lidance		
	Condone use of 'probability'/'chance	e' for 'risk'			
	The risk each month is the same			B1	
	The risk stays the same over time (implies each month)			B1	
7(a)(iii)	The risk is (still) the same			В0	
	The risk of not selling in month one is the same as the risk of not selling in month two			B1	
	The risk of not selling in one month is the same as not selling in two months			В0	
	She doesn't sell the house in the first month			B0	
	The price stays the same			B0	

Q	Answer	Marks	Comments		
	Alternative method 1 – Starting with £135000				
	1 ÷ 0.05 or 20 or 20 000	M1	oe		
7(b)(i)	(£)155000	A1			
	Alternative method 2 – Starting w	vith £150 00	0		
	5 (× 1000) or 5000	M1	oe		
	(£)155000	A1			

Q	Answer	Marks	Comme	nts
	Any valid reason, eg Risk (of not selling) will change over time or Prices will probably go up making that price more attractive or Natalie might accept a lower offer even though it is on sale at that price	B1	oe	
	Additional Guidance			
	Somebody might be willing to pay asking price			B1
7(b)(ii)	There's no time limit (so it will sell ev	B1		
, (2)(1)	House prices may rise	B1		
	The house might be in a desirable lo	B1		
	The local schools may be outstanding			B1
	House/Home improvements			B1
	It's only a prediction / predicted risk / estimate It's only a model			B1 B1
	It might be a low price for buying a house (in that area) It's a low price for buying a house (in that area)			B1 B0
	(The housing) market may change			B0
	Inflation			В0

Q	Answer	Marks	Comme	nts
	Changes in prices (of goods/services)	B1	oe	
	Ado	ditional Gu	idance	
	Changes in the price of (everyday) t	icts	B1	
	The price of goods/things	В0		
8(a)	It measures the change(s) in price(s		B1	
	It measures the changes in prices in	В0		
	Measures inflation of prices/products	B1		
	(Changes in) inflation	В0		
	It measures the price of goods		B0	
	Consumer Price Index			B0

Q	Answer	Marks	Comments
8(b)	5	B1	

Q	Answer	Marks	Comments
8(c)	Any correct statement referring to the trend of both from 2010 to 2018 eg, both private and public sectors increased (from 2010 to 2018)	B1	oe
	Any correct statement referring to pay before and after 2014 eg, before 2014, public was higher but after 2014 private was higher	B1	oe

Additional guidance for this question is on the next page

	Additional Guidance	
	Ignore any non-contradictory or irrelevant statements	
	Index values for Jan 2010, if referred to, must be 100 Acceptable Index values for May 2018: Public sector = [112, 115) Private sector = [116, 119]	
	If Index values are used as evidence, they must be correct, eg Private increased to 118, public only increased to 114, before 2014 public was higher, after 2014 private was higher	B1B1
	Private increased to 118, public only increased to 114	B1B0
	Private increased to 118, public only increased to 115	B0B0
	Private increased to 120, public only increased to 115	B0B0
	Private increased to 120, public also increased	B0B0
	Statements must not refer to amounts of pay, eg	
	Private sector has gone up 18(%), public sector has gone up by 14(%), so private sector pay has gone up the most	B1B0
8(c)	Private sector has gone up, public sector has gone up, private sector has gone up by a bigger amount (implies a bigger percentage)	B1B0
	Private sector has gone up by £18, public sector has gone up by £14, so private sector has gone up the most	B0B0
	They both increase (implies from 2010 to 2018)	B1B0
	They both increase, private increases at a faster rate	B1B0
	Public increased at a faster rate until 2014, then the private sector increased at a much faster rate (than the public sector)	B1B0
	They both increased, private overtook public in 2014 and has been higher ever since	B1B1
	Private overtook public in 2014 and has been higher ever since	B0B1
	Private overtook public in 2014 (only looking at one point)	B0B0
	There's positive correlation between Index and Time	B1B0
	Both have positive correlation	B0B0
	The private sector showed a more positive trend than public sector	B1B0
	The trends increase	B1B0
	The trend increases	B0B0

Q	Answer	Marks	Comme	ents	
	100 120 (× 100) or 0.83(3…)	M1	oe		
	83(.3)	A1	oe		
8(d)	83(.3) and (Jim's) first statement is correct and (Jim's) second statement is incorrect	A1	oe		
	Additional Guidance				
	Condone use of %				
	Ignore $\frac{120}{100}$ (may be seen as an attempt to validate the first statement)				
	83 and this is not 80 (to the nearest	M1A1			

![](_page_14_Figure_1.jpeg)

Q	Answer	Marks	Comments	
	multivariate	B1		
9(b)	Additional Guidance			
	Condone multivariable or multivariative			

![](_page_15_Figure_1.jpeg)

Q	Answer	Marks	Comments		
	Alternative method 1				
	their 0.8 × their 0.05 or	M1	oe from diagram or calculation		
	0.04 (0.05 + their 0.04) × 225 or 20.25	M1dep	allow their 0.2 × their 0.25 for 0.05		
	20 or 21	A1ft	ft for their tree diagram must be integer value		
10(b)	Alternative method 2				
	their 0.04 × 225 or 9 or their 0.05 × 225 or 11.25	M1	oe from diagram or calculation		
	their 0.04 × 225 or 9 and their 0.05 × 225 or 11.25 or 20.25	M1dep			
	20 or 21	A1ft	ft for their tree diagram must be integer value		

![](_page_17_Figure_1.jpeg)

Q	Answer	Marks	Comm	ients	
	Identifies 50th or 50.5th term as median or Identifies 5 < <i>t</i> ≤ 15 as group containing median	M1	could be implied be $5 + \frac{n}{22}$ where $n + \frac{n}{22}$ or vertical line in bar	y < 22 for 5 < <i>t</i> ≤ 15	
11(b)	$\begin{array}{c c} \frac{10}{22} (\times 10) \text{ or } \frac{10.5}{22} (\times 10) \\ \text{or} \\ [4.5, 4.55] \text{ or } [4.77, 4.8] \end{array} \qquad $		oe $\frac{10}{22}$ or $\frac{10.5}{22}$ implies	M1M1dep	
	[9.5, 9.55] <b>or</b> [9.77, 9.8]	A1	oe		
	Additional Guidance				
	Do not accept 2nd bar circled as identification of their median for M1 unless labelled as median or vertical line drawn in bar				
	Ignore any attempt to round after the correct answer seen, eg 9.77 = 10			M1M1depA1	

Q	Answer	Marks	Comm	ents	
Y	Only shows data for 100 trains/might not be representative or Do not know how many trains ran or Data only shows trains which were delayed/don't know how many were on time or May only have been collected over one day/short time period or no time period given	B1	Comm		
	or				
	May be performing better than other companies				
11(c)	Additional Guidance				
	Ignore any non-contradictory or irrelev				
	Most could have been on time	B1			
	May have only been for one day (and weather / factors out of their control)	B1			
	Was only for one day and there might factors out of their control (we d	have been b o not know t	ad weather / he time period)	B0	
	Data could be outdated			B0	
	There may have been something outs eg bad weather	В0			
	Any reference to trains being only dela				
	Modal class is low / most trains only had a short delay			B0	
	Positive skew			В0	

Q	Answer	Marks	Comments
12(a)	$\frac{n}{800} \times 100$ where $34 < n < 176$	M1	oe
	(9, 17)	A1	

Q	Answer	Marks	Comments
12(b)	top table $\rightarrow -0.845$	B1	
	bottom table $\rightarrow$ 0.831	B1	

Q	Answer	Marks	Comm	ents	
	a strong negative correlation between time (after 8 am) and the number of space available	B1ft	oe ft unless 1.25 chosen		
	a strong positive correlation between time (after 1 pm / after 5 hours) and the number of spaces available	B1ft	oe ft for a different but not 1.25	a different value chosen .25	
	Addit	ional Guida	ince		
	Do not accept trend for correlation				
	Ignore any non-contradictory or irrelev	nts			
12(0)	Do not accept correlation without context for B2, eg				
12(C)	For top table				
	(The two sets of data have a) strong negative correlation				
	and			B0B1	
	For bottom table				
	(The two sets of data have a) strong p	ositive corre	lation		
	For top table				
	(The two sets of data have a) negative correlation			RORO	
	and			DODO	
	For bottom table				
	(The two sets of data have a) positive	correlation			

Q	Answer	Marks	Comm	nents
	The car park is only full for about 2 – 4 hours	B1	oe eg less than s	50% of the time
	There is no information about other car parks (which may not be full)		oe	
	or			
	Only talks about one day (not representative)	B1		
	or			
	May be only 800 cars/everyone who needed a space got one			
	Additional Guidance			
	Ignore any values or calculations if inte	ention is clea	ar	
12(d)	Ignore any non-contradictory or irrelev			
	Condone 10 hours for 10 readings			
	For first B1			
	Only full between 12 and 2pm	B1		
	Not too full between 8 and 9 (and 4 an	B1		
	For 5 – 7 hours there are spaces avail	able		B1
	For majority of the day there are space	B1		
	Carpark is never full	В0		
	For second B1			
	It only shows that this car park is full	(implies o	other car parks)	B1
	This data is only for 8am to 5pm			В0

Q	Answer	Marks	Comn	nents	
	Alternative method 1				
	Any one of: 60 × 82 or 4920 40 × 59 or 2360 20 × 26 or 520 7800	M1	oe		
	$\frac{Their (4920 + 2360 + 520)}{60 + 40 + 20}$ or $\frac{7800}{120}$	M1dep	oe		
	65	A1			
	Alternative method 2				
13(a)	Any one of: $82 \times \frac{60}{120}$ or 41 $59 \times \frac{40}{120}$ or 19.7 or 19.6(6) or better $26 \times \frac{20}{120}$ or 4.3(3)	M1	oe		
	$\left(82\times\frac{60}{120}\right)+\left(59\times\frac{40}{120}\right)+\left(26\times\frac{20}{120}\right)$	M1dep	oe		
	65	A1			
	Additional Guidance				
	65% as answer			M1M1depA0	
	$\left(\left(82\times\frac{60}{120}\right)+\left(59\times\frac{40}{120}\right)+\left(26\times\frac{20}{120}\right)\right)\div 3$			M1M0depA0	
	82 × 0.6 + 59 × 0.4 + 26 × 0.2 = 78	(working wi	th percentages)	M0M0depA0	

Q	Answer	Marks	Comments
13(b)(i)	$\frac{58-56}{10}$	M1	ое
	0.2	A1	oe

Q	Answer	Marks	Comm	ents
	Paper 1 ticked		oe	
	and	B1ft		
	highest value / only positive (value)			
	Addit	tional Guida	ince	
	Allow any clear indication for selecting	Paper 1		
13(b)(ii)	Paper 1 ticked and only one he scored	B1		
	Paper 1 ticked and positive (value)	B0		
	Paper 1 ticked and scored above/past	B0		
	Paper 1 ticked and his (standardised) score was above zero / the average			B0
	Paper 1 ticked and his (standardised)	score was n	earest to one	B0

Q	Answer	Marks	Comments
14(a)	control (group)	B1	

Q	Answer	Marks	Comm	ients
	<ul> <li>1 – (good method because it) avoids bias/ is more representative (of those with pre-conceived ideas about the results)</li> <li>or</li> </ul>	B1	Oe	
	<ul> <li>1 – (good method because it) should ensure a roughly equal split of people allocated to each group</li> </ul>			
	<b>2</b> – (good method because) everyone is in the group in which (they think) they would perform the best		oe	
	or			
	<b>2</b> – (good method because it) will be easier to carry out (no need to select)	B1		
	or			
14(b)	2 – (good method because it) is quicker / less time consuming			
	or			
	<b>2</b> – (poor method because) most people may want to be in Group B (so they listen to their favourite song)			
	or			
	2 – (poor method because) unlikely to be representative/ biased/ people may choose the group they think they'll do better in			
	or			
	<b>2</b> – (poor method because) groups may be uneven			
	Addit			
	Ignore any non-contradictory or irrelevant statements			
	1 – unbiased/representative and 2 – biased/unrepresentative			B1B1
	2 – may be distracted by their friends	and unrepres	sentative	B1
	2 – may be distracted by their friends / song	<sup>/</sup> may not ha	ve a/their favourite	B0
	1 – time consuming			B0

Q	Answer	Marks	Comments	
14(c)(i)	Any variable other than the music that might affect reaction time eg tiredness, eyesight, hearing, other noise, health issues, age, gender	B1	oe	
	Addit			
	Music played to group B may distract (music is 'other	B1		

Q	Answer	Marks	Comments	
	Ensure all participants have similar values for their variable in (i)	B1	oe eg pair participan measure taken of mentioned in (i)	ts according to a the variable
	Additional Guidance			
14(c)(ii)	B1 can be scored even if B0 awarded in 14(c)(i) eg References volume of music in 14(c)(i) and states effective control			B1
	Make sure both groups contain similar numbers of males and			B1
	females Make sure both groups contain males and females		3	В0
	Put all the males in one group and all	the females	in another	В0

Q	Answer	Marks	Comm	nents	
	A-level maths results in my school are better than national results	B1	oe hypothesis not question accept 'as good as'		
	Addit	ional Guida	ince		
	Accept Shoab's or his school				
15(a)	Allow use of country eg Wales for 'national'				
	Condone any reference to Year group				
	A-level results are good in my school	B0			
	A-level maths results are good in my school			B0	
	A-level maths results are better in my school than other schools			B0	

Q	Answer	Marks	Comm	ents
15(b)	Any two from: Saves time/cheaper compared to census or easier than obtaining/ dealing with information from all previous students or states it would have been almost as easy to just get all the years results or less reliable/accurate/representative or makes database smaller/more manageable	B2	oe B1 for 1 correct ar	iswer
	Addit			
	Ignore any non-contradictory or irrelevant statements			
	Reference to people not remembering/exaggerating their results			B0

Q	Answer	Marks	Comments	
15(c)(i)	The additional data for even years will have altered the overall proportion		oe	
	or			
	the proportions (which were averaged) will have been rounded (so cumulative rounding errors will have occurred)	B1		
	or			
	different years will have different number of students taking A level maths (so the average of each year's proportion should have been weighted according to numbers)			
	Additional Guidance			
	Ignore any non-contradictory or irrelev			
	Estimated mean	B0		
	Takes the whole population into accou	B1		
	X involves all the years (implies Y doesn't)			B1
	Data not for all years			B1
	Data for all years			В0
	Referencing A* not existing until 2010 scores B0 without another correct comment			

Q	Answer	Marks	Comments	
15(c)(ii)	The proportions (which were averaged) will have been rounded (so cumulative rounding errors will have occurred)		oe	
	or different years will have different number of students taking A level maths (so the average of each year's proportion should have been weighted according to numbers)	B1		
	Additional Guidance			
	Ignore any non-contradictory or irrelev			
	Reason given must be different to 15(			
	Estimated mean	B0		
	Referencing A* not existing until 2010 correct comment, eg			
	X has data for all years however A* did not exist before 2010			B1

Q	Answer	Marks	Comments	
	An appropriate stem drawn for their diagram(s) for the given data	B1	stem should cover tens values of 3, 4, 5 and 6 for a back-to-back diagram	
		51	oe eg	
15(d)(i)			decimal values 0.3, 0.4, 0.5 and 0.6	
	Shoab's data shown correctly on a stem and leaf diagram (on either side if back-to-back)	B1	Shoab's data may be seen on one side of an unlabelled diagram	
	Correct labels and an appropriate key covering both data sets	B1	may see separate keys for each data set which must be correctly orientated for the data set	
	Evidence that values for National data are rounded to 2 sf in order to plot	M1	eg may be seen on diagram, eg three correct values plotted in correct stem row(s) with correct single digit leaf	
	National data shown fully correctly on a back-to-back stem and leaf diagram	A1		

### Additional guidance for this question is on the next page

	Additional Guidance				
	National School				
	7 3				
	5 5 4 3 2 1 <b>4</b> 4 6 7	5 marks			
	<b>5</b> 0 1 6				
	<b>6</b> 3				
15(d)(i)	<ul> <li>Key : 1   4   4 represents 41(%) (nationally) and 44(%) (school) or</li> <li>1   3 represents 31(%)</li> <li>4   4 represents 44(%)</li> </ul>				
	Allow consistent use of proportions				
	Data does not need to ordered				
	If data for all years used, maximum, of B1B0B1M1A0				
	If two separate stem and leaf diagrams, maximum B1B1B0M1A0				
	If one separate stem and leaf diagram, then correct key must be seen for that diagram otherwise award maximum of 1 mark				
	Award maximum B1B1B0M0A0 for Shoab				
	Award maximum B1B0B0M1A0 for National				

Q	Answer	Marks	Comm	nents
15(d)(ii)	Correct value for their median for school or correct value for their median for national	B1ft	50 for school 43 for national (if stem and leaf correct) second value may be implied by reference to difference	
	Correct comparative contextual statement for their medians with at least one correct	B1ft	eg the school had a higher proportion of A and A* grades (on average) or better results	
	Correct value for their IQR for school	B1ft	(56 – 46 =) 10 (if stem and leaf correct)	
	Correct value for their IQR for national	B1ft	(45 – 41 =) 4 (if stem and leaf correct)	
	Correct comparative contextual statement for their IQRs with at least one correct	B1ft	eg the school had more varied proportions of A and A* grades or more varied results	
	Statement correctly comparing the trends	B1	eg both school and national results have generally increased and then decreased a little	
	Additional Guidance			
	Condone reference to results rather than proportions/grades			
	For 2 <sup>nd</sup> B1			
	On average the school did better (than the national average)			B1
	Median is higher for the school			B0
	Values may be calculated from a list of data			
	Ignore any comparisons of means or ranges or modes			
	Values for median and IQR must be correctly evaluated for their ordered data			

Q	Answer	Marks	Comm	ients
	Different entry policies (onto the course or for the exam) at the school/compared to nationally		oe	
	or			
	references that only A/A* grades have been considered, conclusions could have been different if other grades considered (eg looking at C and above)	B1		
	or			
15(e)	sampling / some poor performing years could have been missed			
	Additional Guidance			
	Ignore any non-contradictory or irrelevant statements			
	Referencing A* not existing until 2010 scores B0 without other correct comment			
	Populations may change / be different			B0
	Unreliable data source for national data			B0