

GCSE STATISTICS 8382/1F

Foundation 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	$\frac{1}{6}$	B1	

Q	Answer	Marks	Comments
2	Cleaning	B1	

Q	Answer	Marks	Comments	
3	Skew	B1		
	Additional Guidance			
	Accept skew within the sentence, if tw circled word takes precedence	re given, the		

Q	Answer	Marks	Comments
4	500	B1	

Q	Answer	Marks	Comments	
	Qualitative variable identified	B1	eg Colour, Flowers used, B Customer name, Order	ase used, reference
	Additional Guidance			
5(a)	Condone the data value included with	the variable	, eg	
	Base used Teapot			B1
	Base Teapot			B1
	Colour Red			B1
	Red Colour			B1
	Teapot			B0

Q	Answer	Marks	Comments	
	Quantitative variable identified	eg B1 Selling price / Cost to make / Number of flowers used		
5(b)(i)	b)(i) Additional Guidance			
	Condone the data value included with the variable, eg			
	Cost to make = £4.20			B1
	£4.20			B0

Q	Answer	Marks	Comments	
5(b)(ii)	Discrete ticked	B1dep	Dependent on having identified a discrete value in 5(b)(i) eg Selling price / Cost to make / Number of flowers used	
	Additional Guidance			
	£4.20 in 5(b)(i) and discrete ticked			B1

Q	Answer	Marks	Comments	
5(c)	Correct setup of pictogram with labels of Rose, Daisy, Lily and Carnation	B1		
	3 symbols for Rose or 2 symbols for Lily	B1		
	2.25 symbols for Daisy or 3.75 symbols for Carnation	B1		
	Fully correct pictogram with symbols vertically or horizontally aligned	B1	SC1 11 calculated or a total of 11 pictures	
	Additional Guidance			
	Mark intention with any labels and alignment			
	Ignore any totals at the end of rows/co			

Q	Answer	Marks	Comments		
	(Roses =) 9 and (Daisies =) 4		oe B1		
	and No, because $4 \times 2 = 8$ or No, because $9 \div 2 = 4.5$ or No, because $9 \div 4 = 2.25$ or No, because $9 - 4 = 5$ (not 4) or No, because $4 + 4 = 8$ (not 9)	B2	No and (Roses =) 9 or (Daisies =) 4 or No, Roses is more than double Daisies or No, Daisies is less than half of Roses		
5(d)	Additional Guidance				
	The 9 and/or the 4 may be seen next to the tally chart				
	Ignore any non-contradictory or irrelevant calculations or statements, eg No ticked and $4 \times 2 = 8$, not 9, 9 + 4 = 12 in the working				
	No ticked and $9 \div 2 = 4.5$, you can't have half of a flower				
	Evaluations do not always have to be seen for B2, eg No, because 9 ÷ 2 does not equal 4				
	No ticked and $4 \times 2 = 8$, not 9 No ticked and $4 \times 2 = 8$			B2 B1	
	Do not accept tallies instead of a num No, 2 x IIII does not equal IIII IIII	ber, eg		BO	

Q	Answer	Marks	Comments	
	4	B1		
	Additional Guidance			
6(0)	Answer line takes precedence			
6(a)	4 29			B0
	4 out of (the) 29, 4 in 29, etc			B0

Q	Answer	Marks	Comm	ents	
	11 + 12 or 23 or 11 + 12 + 4 + 2 or 29	M1			
	23 29	A1	oe eg 0.79 or 79%		
	Additional Guidance				
6(b)	(b) Ignore any attempt to convert to decimal or percentage once the correct fraction has been seen, eg				
	$\frac{23}{29} = 73.9\%$	M1A1			
	Decimals or percentages must be corr	ect to 2sf or	better, eg		
	23 or 29 in working, answer 79.3%			M1A1	
	23 or 29 in working, answer 80%			M1A0	

Q	Answer	Marks	Comm	ents
	0.27 and 0.14 or 27% and 14% or $\frac{56}{210}$ and $\frac{30}{210}$ or $\frac{4}{15}$ and $\frac{4}{28}$	B2	oe pair of probabi comparable form B1 $\frac{4}{15}$ or 0.27 or 2 or $\frac{2}{14}$ or 0.14 or 14	lities in 7% 4%
6(c)(i)	Correct statement to confirm that boys are nearly twice as likely to not complete homework compared to females, eg $0.14 \times 2 = 0.28$ which is just more than 0.27 or $\frac{56}{210}$ and $\frac{30}{210}$ and 56 is nearly twice as much as 30 or $\frac{4}{15}$ and $\frac{4}{28}$ and 28 is nearly twice as much as 15 or 4 is double 2 and 15 is very close to 14	B1	oe	
	Addi	itional Guid	lance	
	Decimals or percentages must be corr	rect to 2sf or better		
	$M = 27\%$, $F = 14\%$, $14 \times 2 = 28$ so Miss Wardle is correct			B2B1
	M = 4/15, F = 2/14, 4 is double 2 and 15 is very close to 14 4 is double 2 and 15 is very close to 14			B1B1 B0B1
	4 out of 15, 2 in 14, etc (unless reco	overed)		B0
	4 is double 2			B0

Q	Answer	Marks	Comm	ients
	Any valid statement, eg This is only one homework / one class / one set of data or Some students might have been absent	B1	oe	
	Addi	tional Guid	ance	
	Ignore any non-contradictory or irrelev	ant stateme	ents	
	Small sample size			B1
	Some may have completed their homework but forgotten it			B1
6(c)(ii)	She might not have asked everyone, some might have been ill She might not have asked everyone in the class She might not have asked everyone (too vague)			B1 B1 B0
	She may have recorded the information She may be wrong	B1 B0		
	It's only one piece of homework so it's	not accurat	e	B0
	Not equal numbers of males and females			B0
	This might be a one-off			B0
	The data won't be exactly the same every time			B0
	It doesn't support all of the students			B0
	The homework may have been too dif	ficult		B0

Q	Answer	Marks	Comments
7	10.5	B1	

Q	Answer	Marks	Comments
8(-)	Horizontal axis label of 'Donations'	B1	
	Vertical axis label of 'Shoppers'	B1	
0(a)	Plot at (4200, 250)	B1	$\pm \frac{1}{2}$ square tolerance

Q	Answer	Marks	Comn	nents
	A scatter diagram is not appropriate or The diagram is not appropriate, she is only investigating shoppers	B1	oe	
	Add			
	For scatter diagram, accept scatter g			
8(b)	Naming an appropriate diagram to us wrong, eg			
	Should have used a bar chart, only investigating the number of shoppers			B1
	Should have used a bar chart			В0
	There is no need to measure donatio	B0		
	The diagram's not suitable	B0		
	Not appropriate, only measuring one thing			B1
	Not appropriate			B0

Q	Answer	Marks	Comments
9	Scatter diagram	B1	

Q	Answer	Marks	Comments	
	Any suitable hypothesis, eg European countries have the lowest birth rates	B1	oe eg The rest of the wo birth rates than Eu	rld have higher iropean countries
	Add			
10(a)	Condone the use of the word lower ir			
	Africa has the highest birth rates	B0		
	(no reference to European countries)			
	European countries might have the lo	owest birth rat	tes	B0

Q	Answer	Marks	Comments	
	Choropleth map	B1		
10(b)(i)	Additional Guidance			
וואסטו	Condone choropleth			B1
	Condone choropleth chart/diagram/graph, etc			B1

Q	Answer	Marks	Comments	
	(Yes,) it supports the hypothesis	B1ft	oe ft their 10(a)	
	Additional Guidance Must have a hypothesis in 10(a) to comment on in 10(b)(ii)			
10(b)(ii)	It's (likely to be) correct			B1
	Yes, it's correct			B1
	Yes, it is mostly correct	B1		
	Yes, it might be correct			B0
	Yes			B0

Q	Answer	Marks	Comments		
	No, he is wrong as someone else has collected the data	B1	oe		
	Additional Guidance				
	If neither box is ticked, the reason given may imply no				
10(c)(i)	No, you collect primary data yourself	B1			
	No, he didn't collect it himself			B1	
	No, the Internet gives secondary data B				
	No, it's secondary data			B1	
	No, it's from the Internet			B0	

Q	Answer	Marks	Comments	
	The highest value on the map is 45	B1	oe	
	Add			
	Condone use of the word average, eg			
10(c)(ii)	The highest average birth rate on the	B1		
	Honduras is shaded grey so can't be	B1		
	Honduras is shaded grey which is 10.1-15 / 15.1-20 / 20.1-30			
	Honduras is shaded grey	B0		
	Honduras is an outlier			B0

Q	Answer	Marks	Comm	ients
	Labels for all ten countries and Horizontal axis label of 'Country' and Vertical axis label of 'Birth rate'	B1	Oe	
	All 4 bars to correct heights	B2	$\pm \frac{1}{2}$ square toleran B1 2 or 3 bars to co	nce rrect heights
10(d)	All 4 bars of equal width and gaps of equal width between bars	B1		
	Adc	litional Guida	ance	
	Condone a missing label of 'Country'	for the first E	8 mark	
	Accept abbreviations for a country's Arg or A for Argentina but not 1	name, eg		
	Correct heights are: Germany 8.5 Honduras 22.8 Italy 8.7			
	Japan 7.9			

Q	Answer	Marks	Comm	ents
	Different living conditions or Availability of contraception or Education levels or High infant mortality rate or Cultural/Religious views	B1	0e	
	Add	litional Guida	ance	
	Ignore any non-contradictory or irrelevant statements			
10(e)	Laws on abortion Laws			B1 B0
	Any reference to wealth must be substantiated, eg Some poorer countries use child labour Some countries are richer than others			B1 B0
	Varying use of birth control Birth control			B1 B0
	Famine			B1
	War			B1
	Better healthcare Healthcare			B1 B0
	Some countries are more developed	than others		B0
	Bigger population			B0

Q	Answer	Marks	Comm	ents
10(f)(i)	8.5	B1		
	their 8.5 × 80 000 000 (÷ 1000) or 680 000 000 (÷ 1000)	M1	oe their 8.5 must be a birth rate from the table or 22.8	
	680 000	A1		
	Additional Guidance			
	Embedded answer			B1M1A0

Q	Answer	Marks	Comm	ents	
10(f)(ii)	Population and/or birth rate is rounded	B1	oe		
	Additional Guidance				
	The given population is approximate			B1	
	The population is ever changing			B0	
	Some births have not been recorded			B0	

Q	Answer	Marks	Comments		ents
	The source(s) (of his data)	B1	oe		
	Additional Guidance				
10(g)	The author				B1
	A link to the articles (the website link)				B1
	Where he got the data from (ambiguous)			B0	

Q	Answer	Marks	Cor	nments
	Allocate each square a number from 1 to 25	B1	oe	
	(Shuffle the cards and without looking) pick a card at random	B1	oe	
	Pick the square that is indicated by the card	B1	oe	
	Addit			
	For the third mark, candidates must link eg			
11	Number the squares from 1 to 25, rando square	B1B1B1		
	Number the squares from 1 to 25, rando card	B1B1B0		
	Using a random number generator can	score up to	B2, eg	
	Number each square from 1 to 25, use a to select a number from 1 to 25, pick thi	B1B0B1		
	Number each square from 1 to 25, use a pick this square	umber generator,	B1B0B0	
	Number each square, use a random number generator, pick this square			B0B0B0

Q	Answer	Marks	Comments
12	В	B1	

Q	Answer	Marks	Comm	nents
	Two correct statements from: oe U certificates rose and have fallen again or U certificates have increased (slightly) B1 or PG certificates have risen 12 certificates have risen 12 certificates have risen 15 certificates have risen 18 certificates have risen B2 18 certificates have remained fairly steady (or risen and have fallen again) or 18 certificates have decreased (slightly) B2 With the exception of 2013, the number of '15' rated movies released was always bigger than any of the other rated movies released There were always fewer 18 rated	oe B1 one correct stat	ement	
13(a)	movies (released than any other rating of movie)			
	Additional Guidance			
	Answers referring to just 2008 and 2018	can still sco	re B2, eg	
	(From 2008 to 2018,) 12 certificates have risen, 18 certificates have decreased (slightly)			B2
	Two correct statements can be given in o	ne commer	it, eg	
	PG certificates have risen, 15 certificates	have risen		B2
	Do not ignore incorrect statements for B2	, eg		
	12 certificates have risen, 15 certificates always the highest	have risen,	15 certificates were	B1
	Answers must refer to a certificate, eg			
	The total number of films released went of	lown in 200	9	B0
	15 certificates were nearly always the hig	hest		B1
	15 certificates were often the highest			B1
	15 certificates were sometimes the highe	st		BO
	15 certificates were always the highest			В0

Q	Answer	Marks	Comm	ients	
	Correct method for one percentage eg $\frac{69}{69+117+178+227+48} \times 100$	M1	oe		
	One correct percentage	A1			
	Correct value for all 10 percentages	A1			
	A diagram that meets the following criteria:		B1 at least one cr	iterion met	
	vertical axis scale up to at least 100 with at least one intermediate value between 0 and 100 labelled	B2			
	both bars to total 100%				
13(b)	each other				
	appropriate key or equivalent				
	2008 bar correct	B1ft	ft their five percer awarded	ntages with M1A1	
			±1 square tolerand	ce	
	2018 bar correct	B1ft	ft their five percentages with M1A awarded		
		±1 square toleran		ce	
	Additional Guidance				
	Fully correct diagram, with no working	ı, is full marks			
	Percentages must be correct to the nearest whole number or better, 5sf answers are:				
	2008: 10.798%, 18.310%, 27.856%	6, 35.524%, 7.	.5117%		
	2018: 7.2464%, 16.522%, 34.010%	5, 37.874%, 4.	.3478%		
	Cumulative percentages from U to 18	(correct to 1d	lp) are:		
	2008: 10.8%, 29.1%, 57.0%, 92.5%	5, 100.0%			
	2018: 7.2%, 23.8%, 57.8%, 95.7%,	100.0%			
	Cumulative percentages from 18 to U	(correct to 1d	lp) are:		
	2008: 7.5%, 43.0%, 70.9%, 89.2%,	100.0%			
	2018: 4.3%, 42.2%, 76.2%, 92.8%,	100.0%			

Q	Answer	Marks	Comm	ents
	Secondary ticked (or implied) and reference to the difficulty of collecting representative data himself or Primary ticked (or implied) and reference to getting information specific to Northtown	B1	0e	
	Addi	tional Guida	nce	
	If neither box is ticked, the reason give secondary			
	Primary because in other towns it migl	B1		
13(c)	Primary as it's more reliable as it will b Primary as it's more reliable	B1 B0		
	Primary as it's more accurate			B0
	Secondary as primary would take too	B1		
	Secondary as the cinema has no custo Secondary as it's a new cinema	B1 B0		
	Secondary as it's easier to collect Secondary as it's easier			B1 B0
	Secondary as it's more efficient (why is it more efficient?)			B0
	Secondary so he knows what films to	buy		B0

Q	Answer	Marks	Comm	ents
	The values do not add up to 100% (so must have been rounded)	B1	oe eg The values add up must have been ro	o to 101% (so ounded)
13(d)	Additional Guidance			
	The percentages have been rounded to the nearest whole number			B1
	It's been rounded to the nearest whole number (ambiguous)		B0	
	It's an estimate			B0

Q	Answer	Marks	Comments	
13(e)(i)	The value for 18 certificate films is 0(%)	B1	oe	
	Additional Guidance			
	Nobody watched the 18 certificate film	IS		B1

Q	Answer	Marks	Commo	ents	
13(e)(ii)	The films may have been shown but no-one went to see them (or very few did) or The value of 0% is actually not exactly zero, it was rounded down	B1	Oe		
	Additional Guidance				
	Maybe the film rated 18 (was shown b	B1			
	This was only one week, 18 certificate week (missed the point)	B0			

Q	Answer	Marks	Comm	ents
	Two valid criticisms, eg Too many sections Percentages/angles not visible for some countries Should be in a bar chart	B2	oe B1 one valid criticis	sm
	Add	itional Guida	ance	
	More countries should have been gro	ouped togethe	er	B1
	Too many labels / Too many countrie	B1		
14	Not easy to read as there's too many	B1		
	Not easy to read due to the shading Not easy to read	В0 В0		
	Shouldn't have used a pie chart, sho	B1		
	Shouldn't have used a pie chart as it'	s hard to read	b	B0
	Other should have more countries	B1		
	Other should be bigger (ambiguou	B0		
	The pie chart should be bigger so that	B1		
	The pie chart should be bigger			B0



Q	Answer	Marks	Comments		
	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 mal (aged 20-29) is greater 1851)	es (or females) (in 1961 than in	
15(b)	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		
	0.75	A1	oe eg 75%		
16(a)(i)	Additional Guidance				
	Do not ignore further work, eg				
	15 × 0.05 = 0.75, answer 99.25			M1A0	
	0.75%			M1A0	

Q	Answer	Marks	Comments		
16(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 16(a)(i)		
	Ac				
	Answers must be correct to 2sf or b				
	Ignore any attempt to round after the correct answer seen, eg 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				
	The risk each month is the same	B1			
	The risk stays the same over time	B1			
16(a)(iii)	The risk is (still) the same			B0	
	The risk of not selling in month one selling in month two	B1			
	The risk of not selling in one month months	BO			
	She doesn't sell the house in the first month			B0	
	The price stays the same	BO			

Q	Answer	Marks	Comments		
16(b)(i)	Alternative method 1 – Starting with £135 000				
	1 ÷ 0.05 or 20 or 20 000	M1	oe		
	(£)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	
	Ad			
	Somebody might be willing to pay a	B1		
16(b)(ii)	There's no time limit (so it will sell e	B1		
10(0)(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 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			B0

Q	Answer	Marks	Com	ments
	Changes in prices (of goods/services)	B1	oe	
	Ado	ditional Gu	idance	
	Changes in the price of (everyday) the	B1		
	The price of goods/things	B0		
17(a)	It measures the change(s) in price(s	B1		
	It measures the changes in prices in	B0		
	Measures inflation of prices/products	B1		
	(Changes in) inflation	B0		
	It measures the price of goods			BO
	Consumer Price Index			B0

Q	Answer	Marks	Comments
17(b)	5	B1	

Q	Answer	Marks	Comments
17(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
17(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

Ø	Answer	Marks	Comme	nts	
	100 120 (× 100) or 0.83(3)	M1	oe		
	83(.3)	A1	oe		
17(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 allempt to valid				
	83 and this is not 80 (to the nearest	M1A1			