

Scatter Graphs

November 2022 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
18 (a)	(2, 1)	B1	cao	
(b)	Description	C1	correct description, eg as the amount of rainfall decreases the number of hours of sunshine increases	Accept negative correlation Ignore any comment about strength Any numbers used in the description must be within tolerance
(c)	3 to 4	M1	for a suitable line of best fit drawn, or for a point marked at $(x, 7)$, or a horizontal line drawn from 7 across to $(x, 7)$ where x is in the range 2.5 to 4	
		A1	answer in the range 3 to 4	

November 2024 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
21 (a)	positive	C1	cao	Ignore any description of a relationship and any reference to strength of correlation
(b)	lobf drawn	C1	for straight line passing between (140, 20) and (140, 22.5) and between (220, 30) and (220, 32.5)	
(c)	26.5 to 29.5	C1	for answer in range 26.5 – 29.5 or ft single line with positive gradient	

November 2021 Paper 3

Question	Answer	Mark	Mark scheme	Additional guidance
21 (a)	(100,18)	B1	cao	
(b)	12.8 to 14.8	M1	for a method to read off eg line of best fit or line up from 370 or for a point on the grid at (370, y) where y lies between 12.8 and 14.8	
(c)	Decision and statement	A1 C1	for an answer in the range 12.8 to 14.8 for decision and statement Acceptable examples No, as this point can be disregarded from the general trend No, ignore this point No, the correlation is positive No, because even with an outlier you can still have a negative or positive correlation. No, there is still a correlation. No, as you can use the rest of the data to determine a correlation. No, as outlier does not affect the majority No as a line of best fit can still be drawn No, it is an anomaly Not acceptable examples Yes, Outliers can be ignored [no decision] No, the outlier can be ignored so the correlation is negative No there are other things that can affect the test	

June 2023 Paper 1

Question	Answer	Mark	Mark scheme	Additional guidance
25 (a)	Description	C1	for a valid description of the relationship Acceptable examples As age increases, weight increases The older you are the greater the weight Positive correlation Not acceptable examples Positive (relationship) age and weight are in proportion strong correlation or correlation is increasing as the babies get older the heavier they get, negative correlation they are directly proportional, weight goes up as age goes up	Accept positive correlation Ignore any comment about strength
(b)	2.5 to 4.5	B2 (B1)	for an answer in the range 2.5 to 4.5 for a suitable line of best fit drawn or for a point on the grid at $(x, 5.8)$ where x lies between 2.5 and 4.5 or a horizontal line drawn from 5.8 across to $(x, 5.8)$ where x is in the range 2.5 to 4.5)	