

Oxford Revise | Edexcel GCSE Maths Foundation | Answers

Chapter 31 Scatter graphs

Question	Answer	Extra information	Marks
31.1 (a)	No correlation		1
31.1 (b)	Strong positive correlation	positive	1
		strong	1
31.2 (a)	None		1
31.2 (b)	Negative		1
31.2 (c)	Positive		1
31.3 (a)	93 cm	Accept 91 – 95 cm	1
31.3 (b)	102 cm	Accept 100 – 104 cm	1

Question	Answer	Extra information	Marks
31.4 (a)		<p>At most one error in points plotted</p> <p>Fully correct</p>	<p>1</p> <p>1</p>
31.4 (b)	Outlier at (30, 80) circled on graph		1
31.4 (c)	Negative		1
31.5 (a)	Positive		1
31.5 (b)	(75, 2)		1
31.6	Both are affected by warm weather, but not by each other. This is an example of correlation without causation.	Any suitable explanation	1

Question	Answer	Extra information	Marks
31.7 (a)		Line of best fit drawn	1
31.7 (b)	26% (see graph)		1
31.7 (c)	Unreliable as outside the range of data values (extrapolation)	Any suitable explanation	1
31.8 (a)	$2x(2 + 5y)$	2 marks for correct answer or 1 mark for $2(2x + 5xy)$ or $x(4 + 10y)$	2
31.8 (b)	$2x$ and $2 + 5y$		1