

# Oxford Revise | AQA 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)	100 cm, plus or minus 3 cm		1
31.3 (b)	6 years lies outside of the plotted data, so it would be extrapolation.	Any mention of extrapolation along with a relevant explanation	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)	$4xz + 10xyz = 2xz(2 + 5y)$	$2xz$ outside the brackets and at least on correct term inside Fully correct	1 1
31.8 (b)	Width and length values of $2xz$ and $(2 + 5y)$	Correct expressions (factors) identified	1