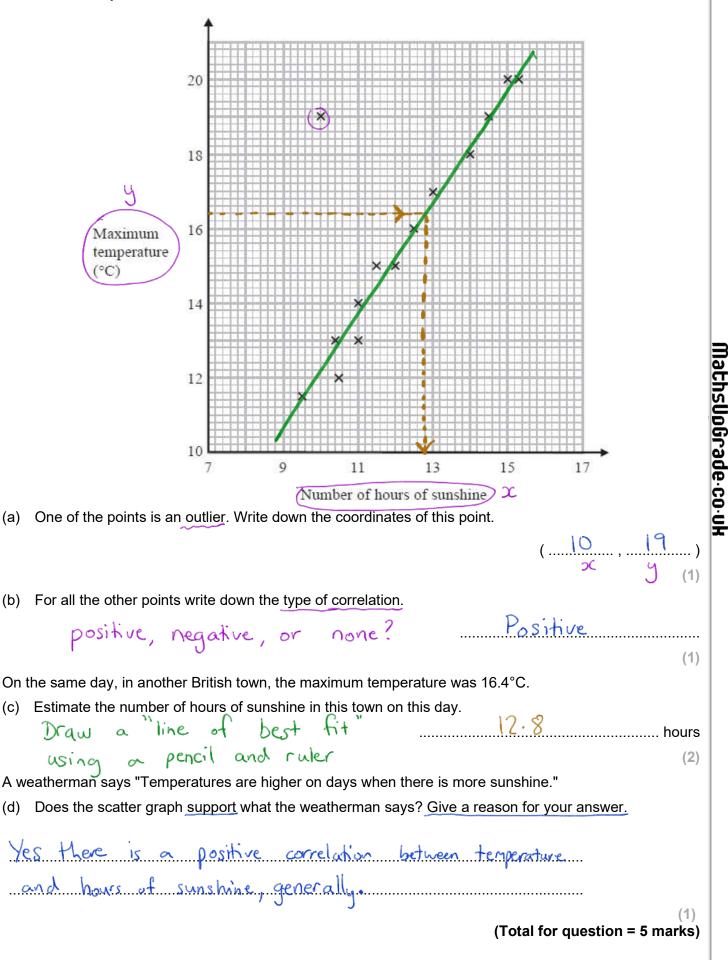
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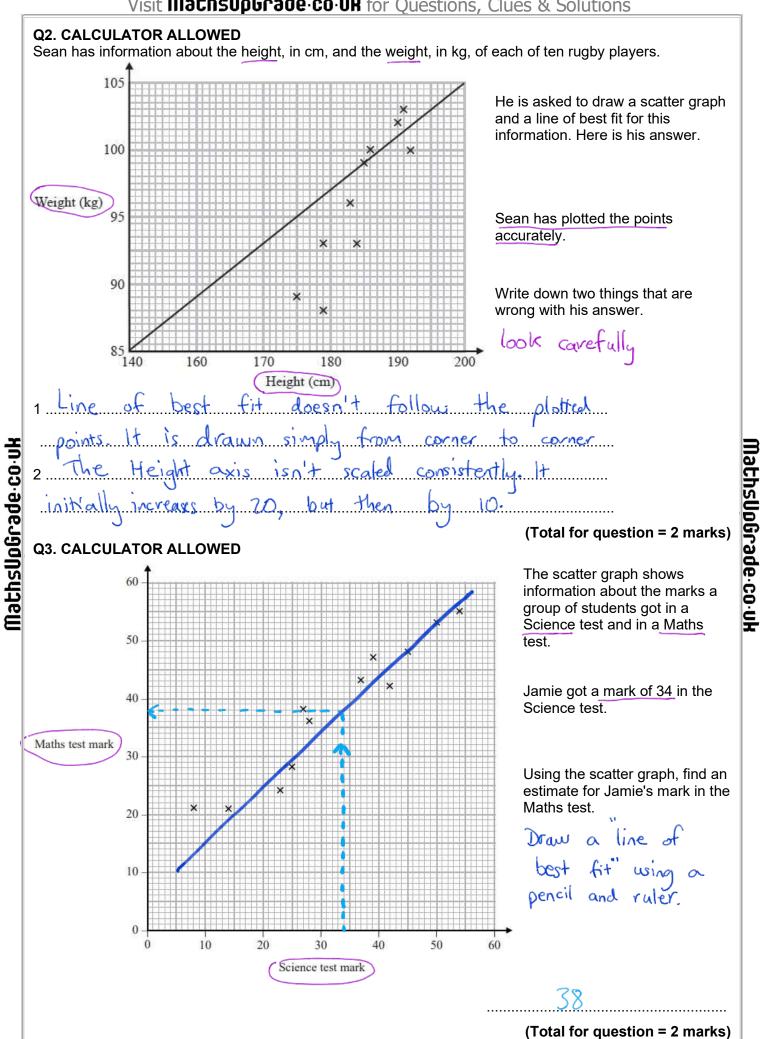
FULL MODEL ANSWERS

Q1. NON-CALCULATOR

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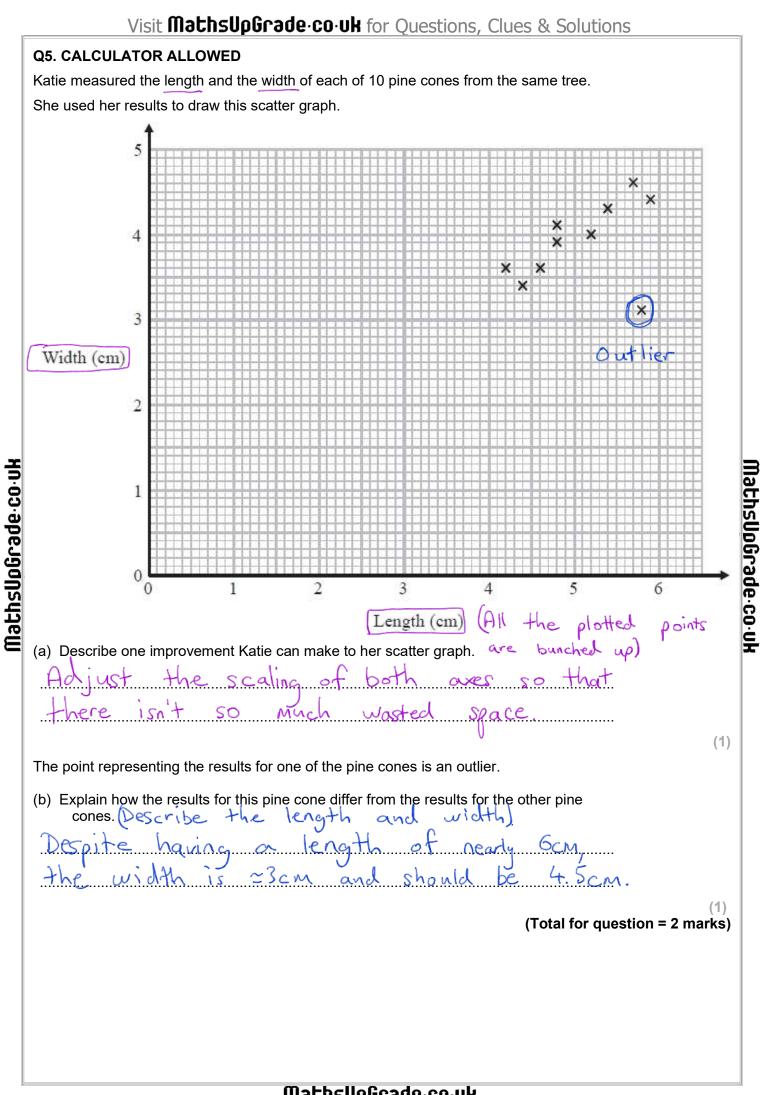
The scatter graph shows the <u>maximum temperature</u> and the <u>number of hours of sunshine in</u> fourteen British towns on one day.

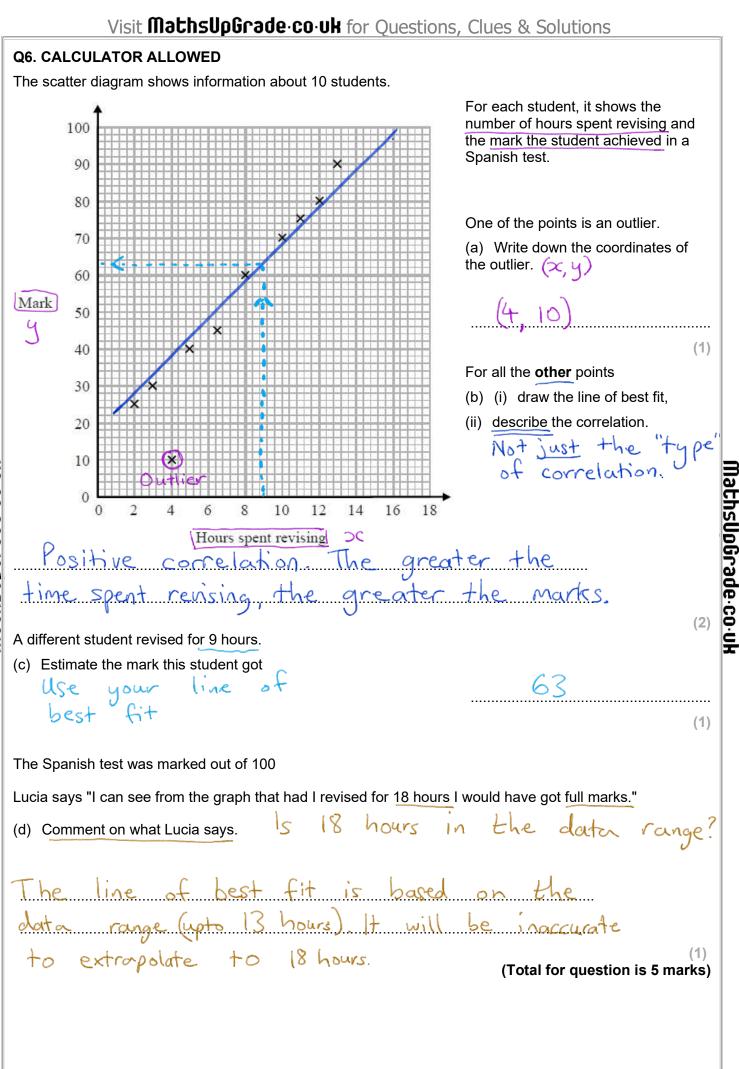




Visit MathsUpGrade.co.uk for Questions, Clues & Solutions **Q4. CALCULATOR ALLOWED** Jean records the maximum daily temperature each day for 10 days. She also records the number of children going to a paddling pool for each of these days. She draws this scatter graph for her information. 50 45 40 35 30 Number 25 of children 20 outlier 15 10 <u>MathsUpGrade.co.uk</u> 5 0 14 15 21 23 12 16 17 18 19 20 22 24 25 (13)Maximum daily temperature (°C) Jean's information for one of these days is an outlier on the scatter graph. (a) Give a possible reason for this. paddling pool may have been closed for (1) (b) What type of correlation does the scatter graph show? Positive Positive, negative none. or (1)On the 11th day, the maximum daily temperature was 19°C. (c) Write down an estimate for the number of children going to the paddling pool on the 11th day. line of best Draw α tit pencil and ruler Using a (1)It would not be sensible to use the scatter graph to predict the number of children going to the paddling pool on a day when the maximum daily temperature was 13°C. (d) Give a reason why. 13°C is not in the data range of the plotted points. The line of best fit is based on 18°C to 24°C (1) (Total for question = 4 marks)

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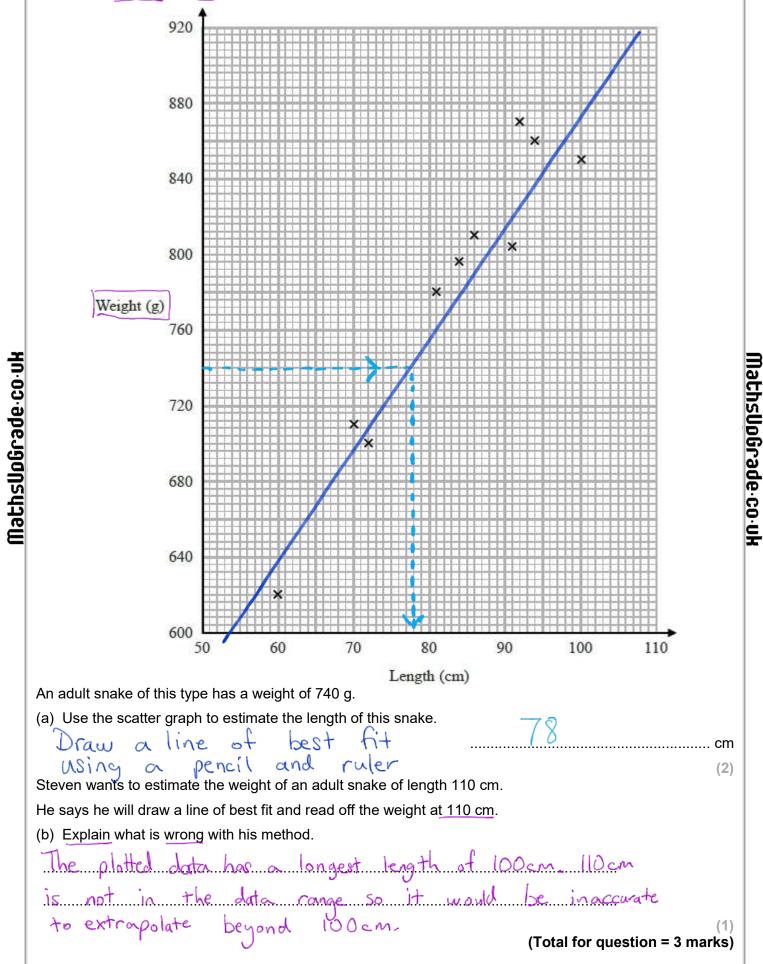




Q7. CALCULATOR ALLOWED

The scatter graph shows information about 10 adult snakes of the same type.

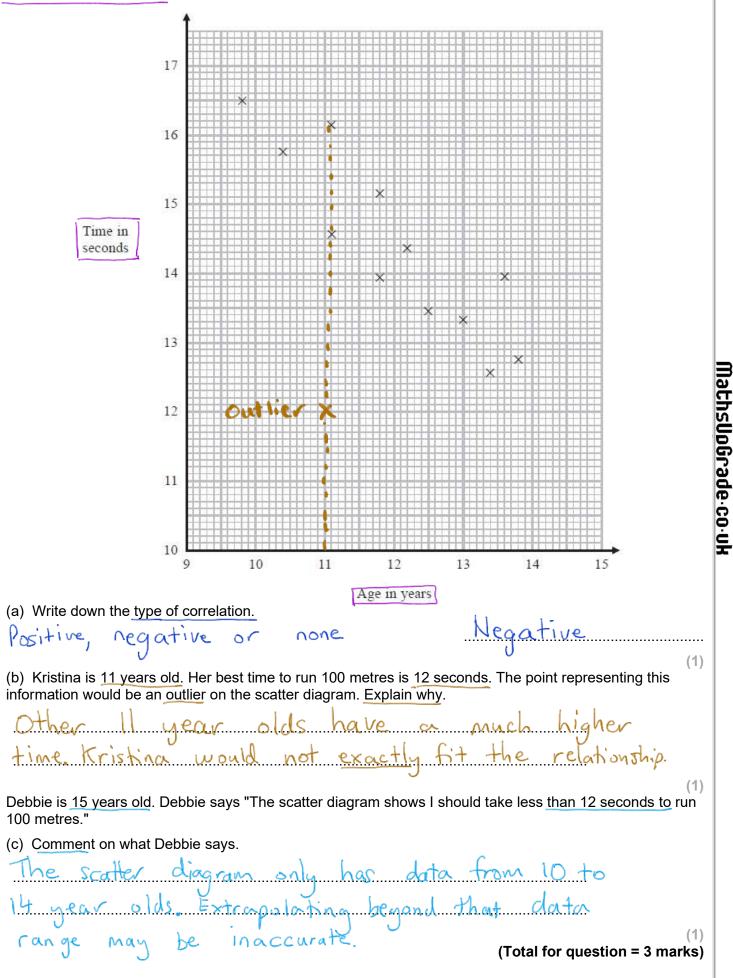
It shows the length and weight of each snake.



Q8. CALCULATOR ALLOWED

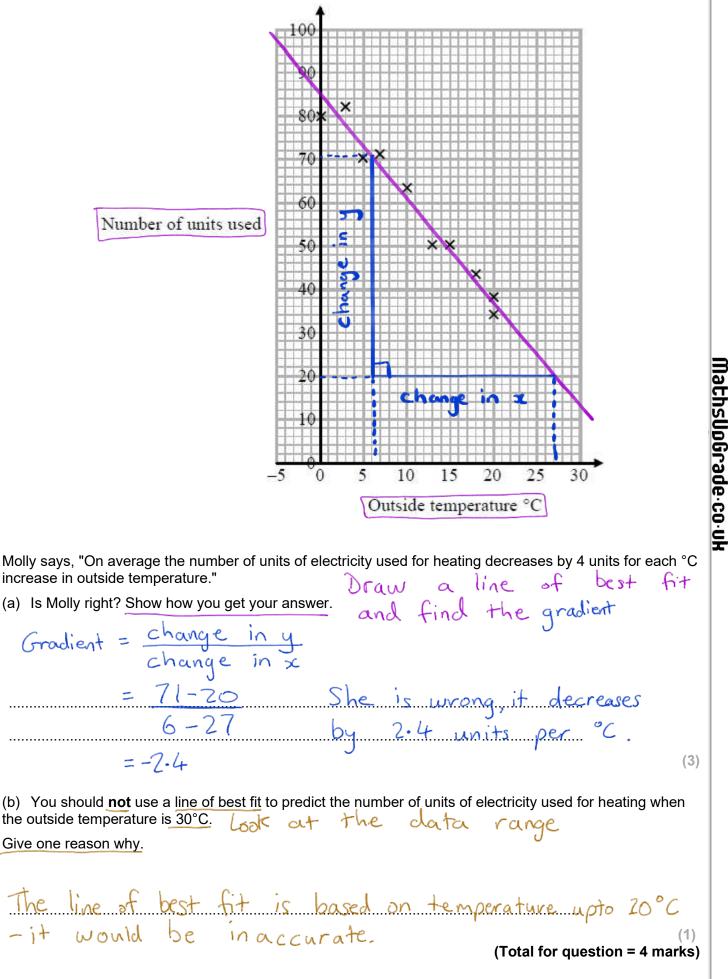
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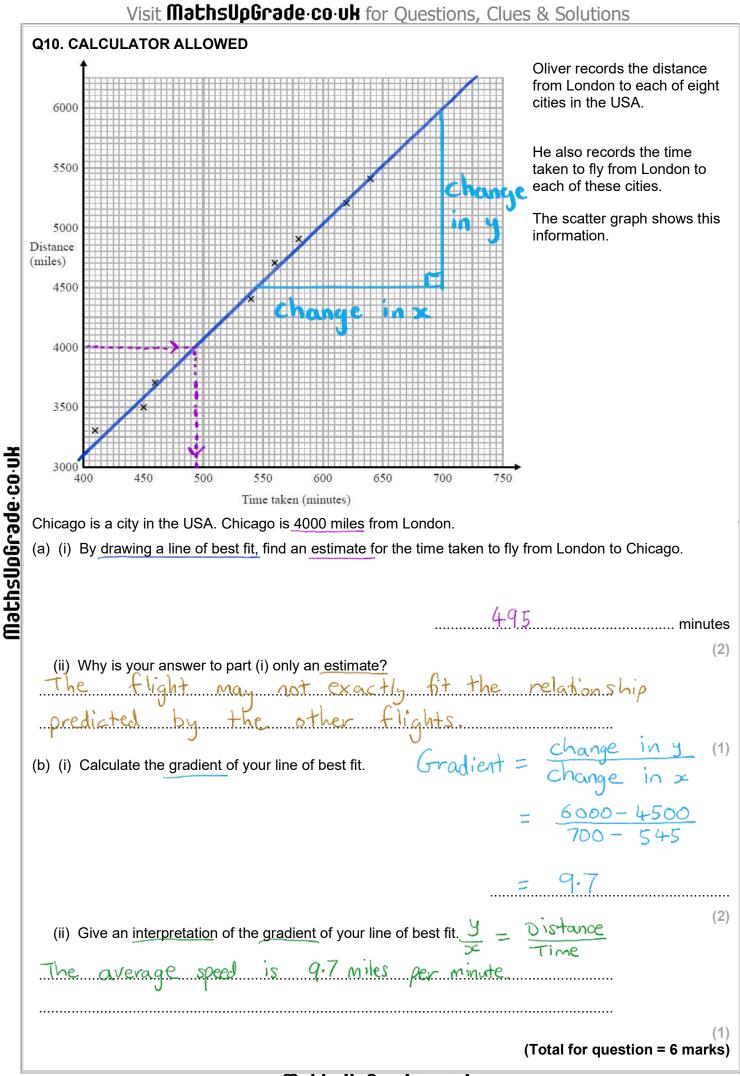
The scatter diagram shows information about 12 girls. It shows the age of each girl and the best time she takes to run 100 metres.



Q9. CALCULATOR ALLOWED

In a survey, the outside temperature and the number of units of electricity used for heating were recorded for ten homes. The scatter diagram shows this information.





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