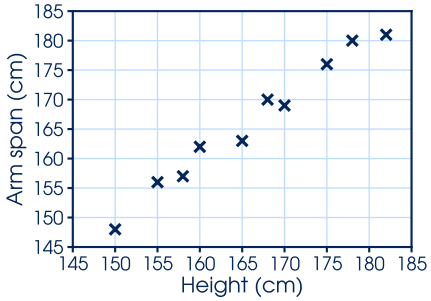
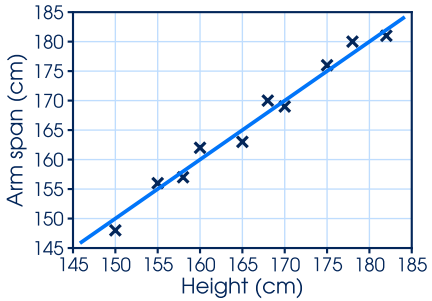
GCSE HIGHER · REVISION MAT 3

Scatter graphs and correlation

1 Describe the correlation.

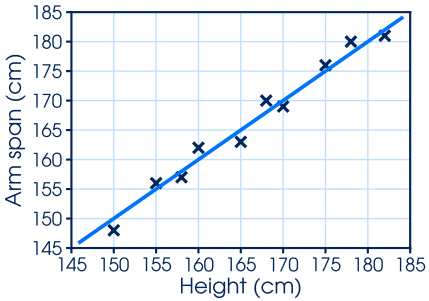


2 Estimate the arm span of a person who is 172 cm tall.



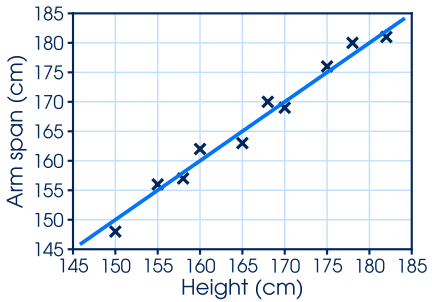
3 Explain the difference between strong and weak correlation.

4 What does the graph suggest about height and arm span?



5 Explain why you should not use this graph to predict the arm span of a 1-year-old child.

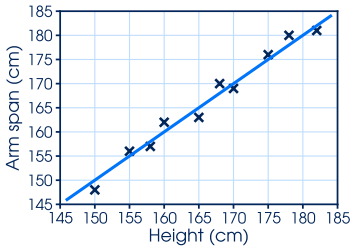
6 Estimate the height of a person with arm span 158 cm.



7 Explain why a line of best fit should have roughly equal numbers of points on each side.

8 Ali's height is 165 cm and his arm span is 163 cm.

How does he compare with the trend?



Mr&Mrs MATHS

ANSWERS · REVISION MAT 3

Scatter graphs and correlation

1 Strong positive correlation

2 About 172 cm

3 Strong: points lie close to a straight line. Weak: points are more scattered.

4 They are roughly equal for most people.

5 Babies are well outside the range of the data.

6 About 158 cm

7 It shows the general trend through the middle of the data.

8 His arm span is slightly less than predicted (about 165 cm).