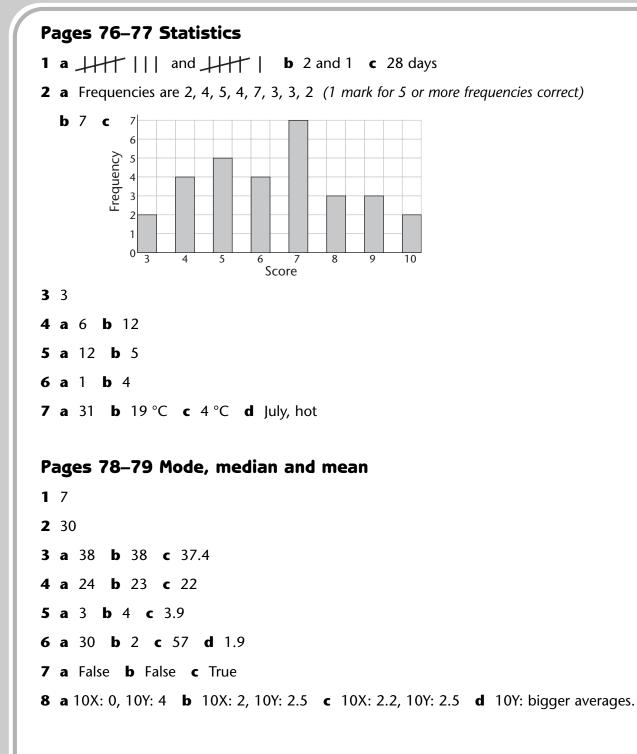
Handling data answers



16

Pages 80-81 Comparing distributions

- **1** B
- **2** 6, 6, 9
- **3** 4, 5, 9
- **4** 2, 8, 8 and 8, 8, 14
- 5 B more consistent and mode is 0
- **6** a, b and d
- **7** a, b and c
- 8 a both 2.5 b Aisha 7, Sarah 3 c Aisha as she sometimes scores lots of goals in one match or Sarah as she is more consistent
- 9 a i 7 ii 7 b i 10 ii 4 c Outside is more consistent or greenhouse has more tomatoes on some plants

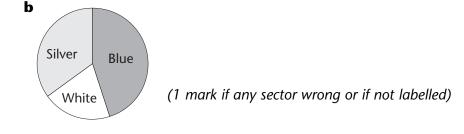
Pages 82–83 Line graphs

- **1 a** 14 °C **b** Thursday and Saturday **c** Friday 17 °C **d** Line has no meaning. Temperature changes throughout the day. Values are just the value at 12 midday.
- **2** a Midnight 4 °C, Midday 6 °C b 6 °C c Friday 13 °C
- **3 a** 1900 miles **b** 5500 miles **c** June
- **4 a** About 9500 **b** No, still above 5000 and may not drop below **c** Yes, change is continuous, so about 15 000
- **5** No, can't assume it keeps raining but if depth continues to rise at same rate as between 10 am and 11 am area will flood by 2 pm.

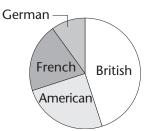


Pages 84-85 Pie charts

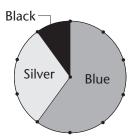
- 3 : 1
- 160°, 60°, 140°, 360° (1 mark for first three)
- a Angles: Blue 162°, White 72°, Silver 126° (1 mark for any two)

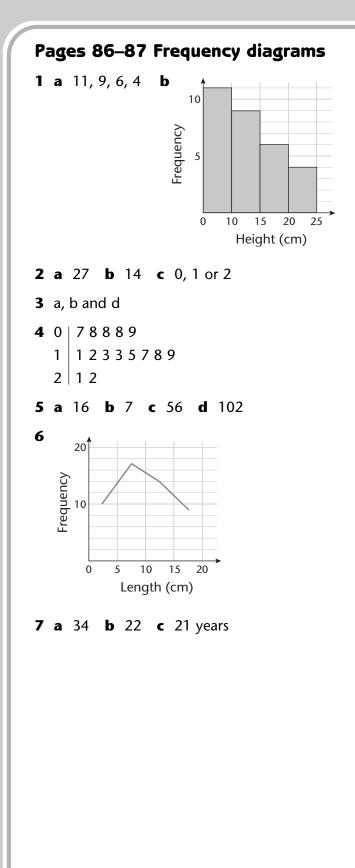


- 15
- 160
- 40
- c
- a
- 9 Angles: British 162°, American 90°, French 72°, German 36°

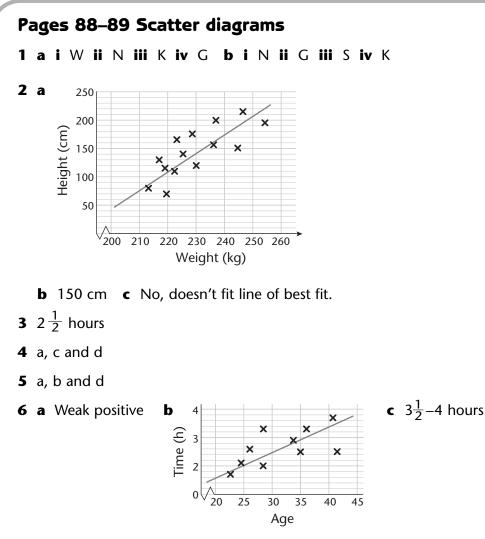


Angles: Blue 216°, Silver 108°, Black 36°





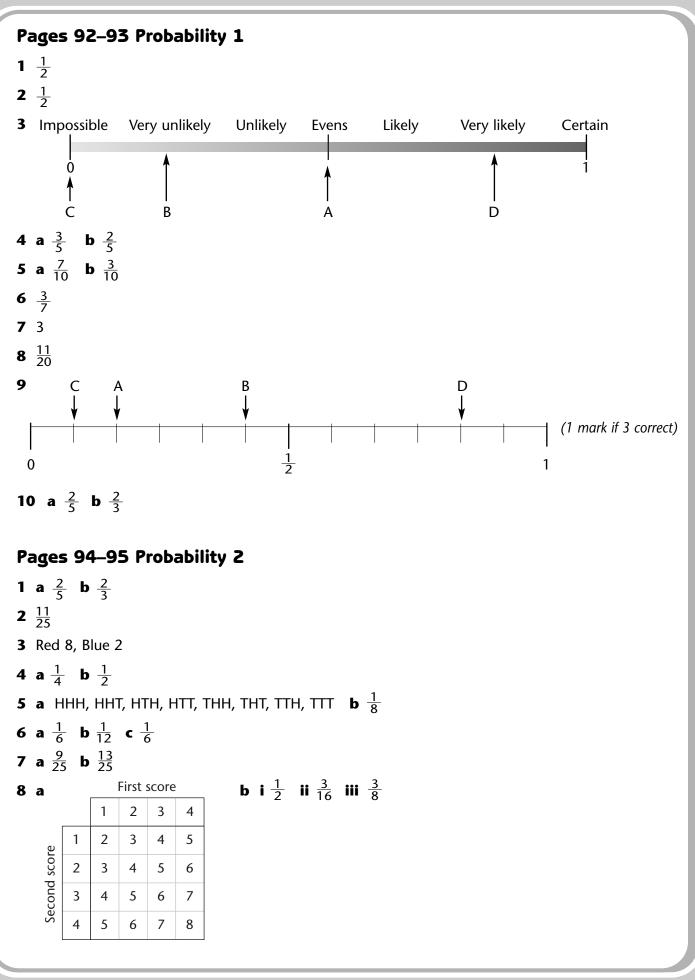




Pages 90–91 Surveys

- 1 b and c
- 2 a i Not enough responses ii Not enough responses iii Not relevant to questionb Good range of responses that covers all views
- **3** 1 Leading question, 2 offensive question
- 4 Derek. Others are biased, Derek gets a random sample.
- 5 Not enough responses
- 6 Quota sampling, will give a varied sample
- 7 All the men and only a fraction of women is not representative.
- 8 a i Not enough responses ii Not enough responses iii Not relevant to questionb Good range of responses which can be analysed mathematically
- 9 Owen. All methods give a random sample but the more pupils surveyed the better.

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