

Unit 1 Analysing and displaying data

1.1 Averages and range

- 1 a 44 b 21
- 2 a 9 b 6
- 3 e.g. 1, 1, 2, 3, 3
- 4 Any five different numbers
- 5 Mode 15, range 5, median 15
- 6 Any value less than or equal to 150
- 7 Company A: Mode = 200, Median = 200, Mean = 202, Range = 15
Company B: Mode = 250, Median = 210, Mean = 206, Range = 130
Either, providing the student justifies it sensibly.
For example:
Company A because it is more reliable as it has a small range of speeds and the same mode and median.
or
Company B because its mode, median and mean internet speeds are faster than Company A's.

1.2 More averages and range

- 1 a 18 weekends b 25 weekends
c 300–399
- 2 a Discrete b Continuous
c Continuous d Discrete

3 a

Arm span, s (cm)	Frequency
$120 \leq s < 130$	2
$130 \leq s < 140$	7
$140 \leq s < 150$	5
$150 \leq s < 160$	1

b $130 \text{ cm} \leq s < 140 \text{ cm}$



1.3 Two-way tables and bar charts

1 a–d

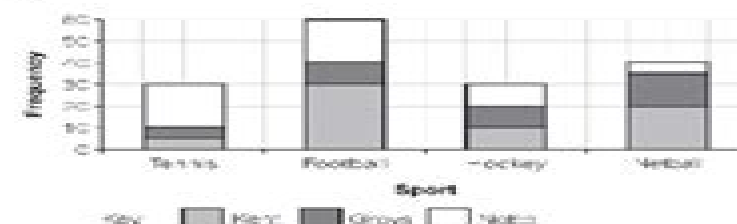
	mp3	mp4	Total
Mahoud	17	12	29
Fahid	34	8	42
Total	51	20	71

2 a



b 8 hamsters c Fish d David's class

3



- b 40 girls
- c e.g. hockey, although fewer people chose it overall, all three schools have roughly equal numbers so they will be equally able to send teams.

1.4 More graphs and tables 1

1 a



- b This data only covers one week; over the course of the next few months the season will change.

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