

65 MORE ON THE MEAN, MEDIAN, MODE AND RANGE

- 1 Make up a set of five numbers in which the mean equals the median.
- 2 Make up a set of eight numbers in which the median equals the mode.
- 3 Make up a set of six numbers in which the mean, median and mode are **a** all the same **b** all different
- 4 The mean of some numbers is 4 and the median is 5. What might the numbers be?
- 5 The mode of a group of numbers is 7, the median is 12. What might the numbers be?
- 6 Which of the mean, median or mode is the best to use for each of these situations.
 - a The owner of the CD store wants to know which CDs to order more of.
 - b A mariner owner wants to know the prices of yachts at his mariner which has about five hundred yachts, three of which belong to billionaires.
 - c A teacher wants to know the average of the marks in an English exam of a class which has five non-English speaking students.
 - d An employer wants to know the salaries of the factory workers at a factory.
 - e The newspaper wants to know the salaries of all the staff at a factory that has two thousand factory workers and about fifty management staff who earn over \$50 000.

- 7 A food scientist measured the amount of Vitamin C in milligrams, in oranges from two different countries.



Country A 92 109 114 85 85 109 98 101
114 93 82 89 98 88 89 112

Country B 105 92 136 106 85 74 94 91
115 82 94 120 124 90 97 117

- a Find the mean, median and range for each country. Write a brief report comparing the countries using the mean, median and range.
- b Which oranges would you buy? Explain your answer using the mean or median and the range. It doesn't matter which one you choose as long as you explain why you chose it.

