Year 7 · Statistics: Averages, Spread and Data

Name: _____ Date: _____

Hi! This sheet helps you get confident finding the mean, median, mode and range, and thinking about the kinds of data we collect. Take your time and show your working.

Warm-up

1. Find the mean of 4, 6, 8, 10 and 12.

2. Find the median of 3, 7, 9, 2 and 5.

3. Find the mode of 2, 4, 4, 5, 7, 4 and 9.

4. Find the range of 12, 5, 18, 9 and 3.

Practice

5. Sort each of these variables into categorical, discrete numerical, or continuous numerical: (a) favourite ice cream flavour, (b) number of brothers and sisters, (c) height in centimetres, (d) eye colour.

6. In five netball games the Avondale team scored 8, 12, 10, 6 and 14 goals. Find the mean number of goals per game.

7. Six lunchtime temperatures (°C) were recorded: 18, 21, 19, 23, 20 and 22. Find the median temperature.

8. The shoe sizes of seven students are 5, 6, 5, 7, 8, 5 and 6. Find the mode and the range.

9. Mrs Patel's class wanted to answer the question 'Are our feet the same length?' They measured six feet (in mm): 220, 235, 228, 240, 225 and 232. Find the mean foot length and the range.

10. Six friends in Avondale save this much pocket money each week: $5, $8, $6, $10, $8 and $11. Find the mean, median and mode of the amounts saved.

Challenge

11. The mean of five rugby scores is 15. Four of the scores are 12, 18, 10 and 20. What is the fifth score?

12. The heights (cm) of seven students are 142, 150, 138, 155, 148, 160 and 145. (a) Find the median and the range. (b) A new student who is 165 cm tall joins the group. What is the new median?