

The mode and the range (most common, and the spread)

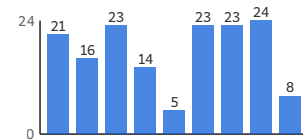
MODULE 9 · DATA AND CHANCE DATA & CHANCE

HOW TO ANSWER TODAY

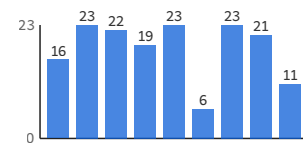
- **Mode (most common).** The mode is the number that appears MOST OFTEN.
2, 2, 3, 5, 2, 7 → 2 appears three times → mode is 2
- **Range (spread).** Range = BIGGEST minus SMALLEST.

STRETCH PROBLEMS

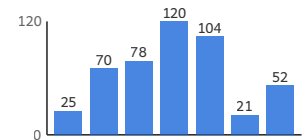
- 1 Over nine days, Oisín counted the pupils queuing at the SuperValu deli each lunchtime: **21**, **16**, **23**, **14**, **5**, **23**, **23**, **24** and **8**. What is the mode of the daily counts?



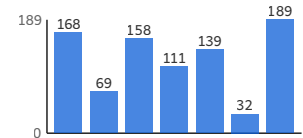
- 2 Aoife records how many pupils answer the daily maths question correctly each day. Over nine days her tally shows **16**, **23**, **22**, **19**, **23**, **6**, **23**, **21** and **11** correct answers. What is the mode of these numbers?



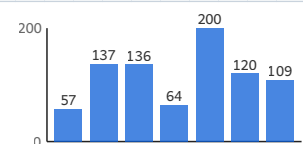
- 3 Each day this week, Cian counted how many pupils answered the daily maths question correctly across the whole school: **25**, **70**, **78**, **120**, **104**, **21** and **52**. What is the range of his daily totals?



- 4 For a science investigation, 4th class time how many seconds water takes to trickle through seven different soil samples. The times are **168**, **69**, **158**, **111**, **139**, **32** and **189 seconds**. What is the range of the times?



- 5 4th class raised money for the school garden with a sponsored read. Seven pupils collected **57**, **137**, **136**, **64**, **200**, **120** and **109 euros**. What is the range of these amounts?



INVESTIGATE

Mode and range hunt

Gather one real set of class numbers (shoe sizes, letters in first names, or minutes spent reading last night). Find the **mode** and the **range**. If two new pupils joined with very different values, what could happen to each?

