

Data and chance investigation: survey, display and conclude

MODULE 9 · DATA AND CHANCE

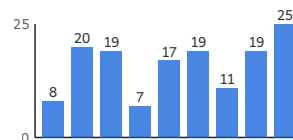
DATA & CHANCE

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
- **Read a bar chart.** Read the top of each bar. Check the y-axis scale to see what each grid line is worth.
Each grid line = 5, bar reaches the 4th line → value is 20
- **Range (spread).** Range = BIGGEST minus SMALLEST.
5, 12, 8, 3, 15 → 15 - 3 = 12

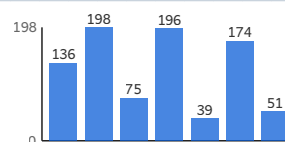
★ STRETCH PROBLEMS

- 1 For a science experiment, 4th class time how many seconds water takes to trickle through nine soil samples. The times are 8, 20, 19, 7, 17, 19, 11, 19 and 25 seconds. What is the mode of the times?

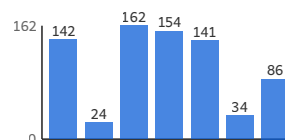


- 2 At home time, 3rd class make a bar chart of the colours of cars passing the school gate. The bars show Silver: 20, Red: 13, Black: 27, Blue: 21 and White: 19. How many cars did they count in total?

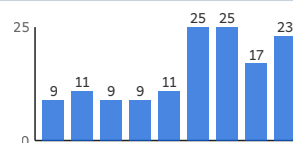
- 3 During Seachtain na Gaeilge, 4th class kept a tally of the pages read by seven pupils in one week: 136, 198, 75, 196, 39, 174 and 51 pages. What is the range of the pages read?



- 4 During the October reading challenge, seven pupils in 4th class each recorded the number of pages they read one week: 142, 24, 162, 154, 141, 34 and 86. What is the range of the pages read?



- 5 Over nine mornings, 4th class recorded the outdoor temperature in degrees Celsius: 9, 11, 9, 9, 11, 25, 25, 17 and 23. What is the mode of these temperatures?



● INVESTIGATE

Chart a class favourite

Pose one clear question your class will enjoy (favourite break snack, GAA county, or rainy-day game). Collect tallies, choose a **sensible scale** that fits your biggest value, and draw the bar chart. What does it show at a glance, and what would you ask next?
