

Data and chance investigation – survey, display and conclude

MODULE 9 · DATA AND CHANCE

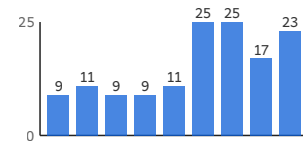
DATA & CHANCE

HOW TO ANSWER TODAY

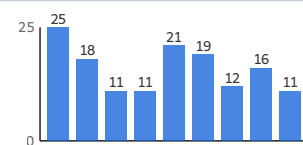
- **Mode (most common).** The mode is the number that appears MOST OFTEN.
2, 2, 3, 5, 2, 7 → 2 appears three times → mode is 2
- **Mean (average).** Add ALL the numbers. Divide by HOW MANY there are.
Mean of 2, 5, 6, 9 → $(2+5+6+9) \div 4 = 22 \div 4 = 5.5$
- **Chance words.** Choose from: impossible · unlikely · even · likely · certain.
Sun rising tomorrow → certain · Coin landing heads → even

STRETCH PROBLEMS

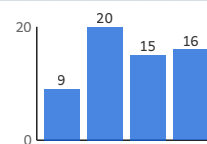
- 1 Over nine mornings, 4th class recorded the outdoor temperature in degrees Celsius: 9, 11, 9, 9, 11, 25, 25, 17 and 23. What is the mode of these temperatures?



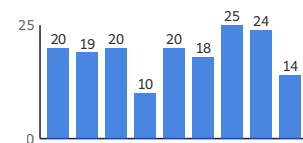
- 2 Mr Daly's class counted the number of pupils walking to school on nine different mornings: 25, 18, 11, 11, 21, 19, 12, 16 and 11. What is the mode of these counts?



- 3 During PE this month, Tadhg ran laps of the yard on four different days. He ran 9 laps, 20 laps, 15 laps and 16 laps. What is the mean number of laps he ran per day?



- 4 Cian records the midday temperature on the school's outdoor thermometer for nine days. He notes 20, 19, 20, 10, 20, 18, 25, 24 and 14 degrees Celsius. What is the mode of his temperatures?



- 5 In 4th class there are 30 pupils, and the teacher picks one name at random from the roll. How likely is it that the chosen pupil is left-handed? Choose one: impossible, unlikely, even, likely or certain.

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?

