

Data and chance investigation – survey and show

MODULE 9 · DATA AND CHANCE DATA & CHANCE

HOW TO ANSWER TODAY

- **Tally marks.** Tally marks come in gates of 5. Count gates $\times 5$, then add the singles.
3 gates + 2 singles $\rightarrow 3 \times 5 + 2 = 17$
- **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 $\rightarrow$ value is 20
- **Chance words.** Choose from: impossible · unlikely · even · likely · certain.
Sun rising tomorrow $\rightarrow$ certain · Coin landing heads $\rightarrow$ even

WARM-UP

- Cian is doing a science investigation timing how many drops of water trickle through a soil sample each minute. He records each drop on a tally chart and ends up with **3** full gate marks of **5** and **1** extra single mark. How many drops did he count altogether?
A tally chart shows 3 groups of 5 (gate marks) plus 1 extra single marks. How many items does this represent in total?
- The 3rd and 4th classes at Scoil Bhríde voted on their favourite fruit for a healthy-eating display. The bar chart showed Apple: **10**, Pear: **27**, Orange: **17** and Banana: **28**. Which fruit was the most popular across the two classes?
A bar chart shows favourite fruit in a class. Apple: 10, Pear: 27, Orange: 17, Banana: 28. Which fruit was most popular?

PRACTICE

- Mr Ó Briain made a pictogram of the raffle tickets sold for the Christmas hamper in 4th class. Each ticket picture stands for **2** tickets sold. Aoife's row has **7** ticket pictures. How many tickets did Aoife sell altogether?
On a pictogram, each picture stands for 2. One row has 7 pictures. How many is that altogether?
- Mr Ó Briain's the class do a survey on pocket money and find that **12** pupils get a small amount each week. He records the **12** responses as a tally using gate marks. How many full groups of **5** will the tally have, and how many extra single marks?
A class survey records 12 responses for one option. How many groups of 5 (gate marks) will the tally have, and how many extra single marks?

CHALLENGE

- In Ms Murphy's 4th class, the pupils are talking about chance in the maths corner. They wonder how likely it is that a randomly chosen pupil in a class of **30** will be left-handed. Choose one word to describe this: impossible, unlikely, even, likely, or certain.
- Cara's class makes a pictogram of the books read by each group last week. Each book picture stands for **5** books, and the Red Group's row has **3** pictures. How many books did the Red Group read altogether?
On a pictogram, each picture stands for 5. One row has 3 pictures. How many is that altogether?