

End-of-year review — data, chance and algebra; maths-journal reflection

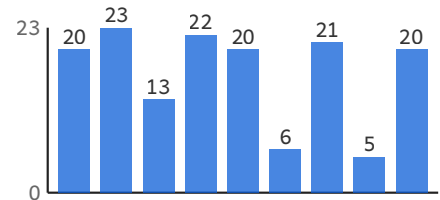
MODULE 10 · ALGEBRA — PATTERNS, RULES AND NUMBER SENTENCES ALGEBRA

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
- **Solve for x.** Do the OPPOSITE operation to both sides. + becomes −; × becomes ÷.
 $x + 7 = 15 \rightarrow x = 15 - 7 = 8$ $3x = 21 \rightarrow x = 21 \div 3 = 7$

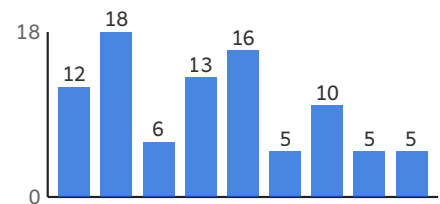
★ STRETCH PROBLEMS

- 1 During a Cumann na mBunscol hurling blitz, 4th class recorded the points scored in each match as 20, 23, 13, 22, 20, 6, 21, 5 and 20. What is the mode of these scores?

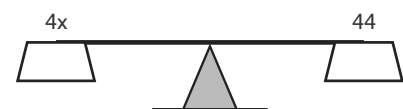


- 2 Aoife is threading beads to make a bracelet in a repeating pattern: red, red, yellow, red, red, yellow, red, ____ . What colour bead comes next, and what is the repeating unit?

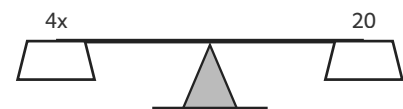
- 3 In PE this month, the teacher records how many laps of the yard nine pupils run: 12, 18, 6, 13, 16, 5, 10, 5 and 5. What is the mode of the lap counts?



- 4 At Camogie training under the floodlights, the coach splits the players into 4 equal drill lines. There are 44 players in total, with x players in each line. Solve $4x = 44$ to find how many players are in each line.

Find x so the scale balances.

- 5 At the school sports day, 4 relay teams each have the same number of runners. Altogether there are 20 runners taking part. If x is the number of runners on each team, so that $4x = 20$, how many runners are on each team?

Find x so the scale balances.