

SORTING ON A CARROLL DIAGRAM

- 1 The columns sort even / odd; the rows sort single-digit / two-digit.
- 2 4 is even and single-digit, so it sits in the top-left box; 9 is odd and single-digit, so it sits in the top-right box.
- 3 22 is even and two-digit (bottom-left); 11 is odd and two-digit (bottom-right).

	even	odd
single-digit	4	
two-digit	9	

PRACTICE

- 1 Ms Ryan writes 14 on the board and asks the class which box it belongs in on the even / not even grid.
- 2 The next card Ms Ryan holds up is 7, and the class must place it on the even / not even grid.
- 3 Liam sorts the number 4 into its box on the classroom Carroll diagram.
- 4 The maths group must place cards 11, 22 and 9 into the four boxes of their Carroll grid.
- 5 In her copy Aoife draws two overlapping circles labelled even and more than 10, then writes 8, 15 and 20 into the correct regions.
- 6 Sean must decide where the number 3 goes in the class Venn diagram of even and more than 10.

? ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

- An item on a Carroll diagram lands in exactly one box.
- A number that is even and more than 10 goes in the overlap of a Venn diagram of 'even' and 'more than 10'.
- A number written on a Carroll diagram is even.
- The number 22 sits in the same box as the number 9 on the even/odd, single-digit/two-digit grid.

REFLECT

Did the Carroll diagram or the Venn diagram make the groups clearer for you? Why?