

Mental addition strategies – partition, count-on, near-doubles

MODULE 2 · THE FOUR OPERATIONS – MENTAL AND WRITTEN NUMBER

★ STRETCH PROBLEMS

- 1 On the school nature walk, 4th class count **3427** steps to reach the pond in the local park, then **6869** more steps to reach the old oak tree. How many steps do they take in total?
- 2 The Cliffs of Moher visitor centre welcomed **1292** people on Saturday and **8837** people on Sunday. How many people visited over the whole weekend?
- 3 The nature club counted the birds visiting the classroom feeder over two terms. They recorded **3386** visits in the autumn term and **8528** visits in the spring term. How many bird visits did they count in total?
- 4 A local bakery makes **4729** barmbracks for shops in Cork and **7406** barmbracks for shops in Galway before Halloween. How many barmbracks does the bakery make altogether?
- 5 The school library had **3138** books at the start of the year. Over the year another **2391** books were donated by families. How many books are in the library altogether?

● INVESTIGATE

Which strategy wins?

Try these five sums two ways each: $48 + 35$, $63 + 29$, $75 + 26$, $99 + 47$ and $52 + 48$. For each, use **partition**, **count-on** or **near-doubles**. Which strategy felt fastest each time, and why? Write a rule for choosing.
