Placing and estimating numbers on a 0–1,000 number line

MODULE 1 · PLACE VALUE — WHOLE NUMBERS TO 1,000 AND ROUNDING NUMBER

HOW TO ANSWER TODAY

- **Value of a digit.** Find which place the digit sits in, then write what it is worth there as a number (not the place name).
  In 3,742 the digit 7 sits in the hundreds place. Its value is 700.
- **Expanded form.** Write the number as a sum of its place values. Skip any part that is 0.
  3,482 = 3,000 + 400 + 80 + 2 · 70,050 = 70,000 + 50

STRETCH PROBLEMS

1. 4th class are studying a school plan drawn on grid paper. It shows that the hall covers **2486** squares, the yard covers **7628** squares, the playing field covers **7553** squares, and the car park covers **2963** squares. Write these areas in order from smallest to largest.

2. The school canteen sold **3,772** cartons of milk over the year, and the manager wrote the total on the noticeboard. Write **3,772** in expanded form.

3. 4th class are mapping the school orchard. Three apple trees have signs showing how many apples were picked from each last autumn: **249**, **570** and **565**. Write these numbers in order from smallest to largest.

4. On a sponsored cycle, 4th class cycle **3,772 metres** in total along the local cycle path. In the number **3,772**, what is the value of the digit **2**?

5. The school tuck shop sold **695** pencils, **967** rubbers and **299** stickers this term. Write these totals in order from smallest to largest.