Place value problem-solving and review

MODULE 1 · PLACE VALUE, DECIMALS AND THE NUMBER SYSTEM NUMBER

HOW TO ANSWER TODAY

- **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
- **Round to nearest….** Look at the digit ONE place to the right of where you're rounding to. 5 or more → round up; less than 5 → keep.
  7.34 to nearest tenth → 7.3 (the 4 is less than 5). 7.36 → 7.4.
- **Compare or order.** Compare one place at a time, starting from the LEFT. Use < (less than), > (greater than), or = (equal).
  3.45 < 3.54 Smallest → largest: 0.7, 0.71, 1.07

STRETCH PROBLEMS

1. The school noticeboard shows that **700,049** visitors came to the Cliffs of Moher last year. What is the value of the digit **7** in **700,049**?

2. The school weather chart logged four overnight low temperatures as **7.8** °C, - **8.5** °C, - **4.7** °C and **5.7** °C. Order the temperatures from smallest to largest.

3. Cian shares the cost of a box of pencils, rubbers and rulers for the classroom store equally between the tables. His calculator shows each table's share as **11.995**. What is **11.995** rounded to the nearest hundredth?

4. Róisín checks the school weather chart. The rainfall totals for four days are **0.90 mm**, **3.771 mm**, **9.27 mm** and **2.63 mm**. Order the rainfalls from smallest to largest.

5. Cian checks the school thermometer on four January mornings. The readings are **13** °C, - **9** °C, **8** °C and **7** °C. Order the temperatures from coldest to warmest.