

Reading and writing numbers to millions

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.

$$3,482 = 3,000 + 400 + 80 + 2 \cdot 70,050 = 70,000 + 50$$

STRETCH PROBLEMS

- 1 Cian checks the thermometer outside his classroom window at four different times during the school day and notes the readings in °C as **2.7**, **2.6**, **-4.6** and **9.0**. Order the temperatures from smallest to largest.

Order from smallest (most negative) to largest: 2.7, 2.6, -4.6, 9

- 2 The 5th class weather station logs the temperature each morning at the bird feeder for four days. The readings in °C are **-4.1**, **4.8**, **0.1** and **2.9**. Order the temperatures from coldest to warmest.

Order from smallest (most negative) to largest: -4.1, 4.8, 0.1, 2.9

- 3 The school library catalogue shows that **377,265** books have been borrowed across all the primary schools in the county this year. Write **377,265** in expanded form.

- 4 Cian checks four account balances on his granny's farm spreadsheet at the end of the month. The balances in euros are **12**, **-9**, **14** and **15**. Order the balances from smallest to largest.

Order from smallest (most negative) to largest: 12, -9, 14, 15

- 5 On sports day morning, the school weather station logs the temperatures in degrees Celsius at four different times during the week: **6**, **4**, **-4** and **-10**. Order the temperatures from coldest to warmest.

Order from smallest (most negative) to largest: 6, 4, -4, -10

INVESTIGATE

How big is a million?

About how long would it take to count to a million out loud? Estimate first, then work it out using a sensible rate (say, one number per second). Find three real things that come in **millions** in Ireland.
