

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

- On a school tour to Glendalough in Wicklow, the 5th class checks the thermometer at four different spots during the day. The readings in degrees Celsius are **8.3**, **6.7**, **0.1** and **-4.7**. Order the temperatures from smallest to largest.
Order from smallest (most negative) to largest: 8.3, 6.7, 0.1, -4.7
- 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
- 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
- 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.
- On four winter mornings before training at the local hurling pitch, Tadhg checks the thermometer and writes down the readings in degrees Celsius: **-1**, **15**, **9** and **-10**. Order the temperatures from smallest (coldest) to largest (warmest).
Order from smallest (most negative) to largest: -1, 15, 9, -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.
