

Decimals on a number line

MODULE 1 · PLACE VALUE AND THE DECIMAL NUMBER SYSTEM NUMBER

HOW TO ANSWER TODAY

- **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
- **Decimal places.** Tenths is the first digit after the point, hundredths the second, thousandths the third.
 In 4.82 the digit in the tenths place is 8. · In 0.345 the hundredths digit is 4.
- **Expanded form (decimals).** Write the decimal as a sum of its parts: ones, tenths, hundredths. Skip any part that is 0.
 $4.52 = 4 + 0.5 + 0.02$ · $0.07 = 0.07$

★ STRETCH PROBLEMS

- 1 The school weather chart shows the rainfall on four Mondays in October as **7.02 mm**, **2.880 mm**, **4.03 mm** and **7.130 mm**. Niamh needs to put the readings on the noticeboard in order. Order the rainfalls from smallest to largest.
 Order from smallest to largest: 7.02, 2.88, 4.03, 7.13
- 2 Ms Murphy marks the 5th class sprint times on a number line on the board before the pupils line up at the door for yard. Cian's time was **3.387 seconds** over the class average. Between which two whole numbers does **3.387** sit on the number line, and which whole number is it closer to?
- 3 The school weather chart logs the rainfall on four wet days in October as **4.8 mm**, **2.963 mm**, **5.83 mm** and **8.404 mm**. Order the rainfalls from smallest to largest.
- 4 At the sleepover, Cian works out that his sleeping bag, pillow and a packet of biscuits cost his mam **€3.428** in total before the till rounded to the nearest cent. On a number line, between which two whole euros does **3.428** sit, and which whole euro is it closer to?
- 5 On the 5th class tour to the Cliffs of Moher, Oisín walks **8.32 km** along the cliff path during the day. Write **8.32** in expanded form, showing the ones, tenths and hundredths parts.