Real-life decimals — class survey

MODULE 1 · PLACE VALUE AND THE DECIMAL NUMBER SYSTEM NUMBER

HOW TO ANSWER TODAY

- **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.
- **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. 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?

2. On the coach trip to the Burren, Cian's GPS app shows the bus has travelled **4.191 km** since the last stop. Between which two whole kilometres does **4.191** sit on the number line, and which whole kilometre is it closer to?

3. Saoirse and her cousins are splitting the cost of a present for their grandad. On the calculator, each cousin's share works out to **€19.521** before being rounded to the nearest cent. What is **€19.521** rounded to the nearest hundredth?
   > Round 19.521 to the nearest hundredth.

4. 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?

5. 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