

Place value problem-solving and review

MODULE 1 · PLACE VALUE, DECIMALS AND THE 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 $\rightarrow 7.3$ (the 4 is less than 5). $\cdot 7.36 \rightarrow 7.4$.

 STRETCH PROBLEMS

- 1** 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?

- 2 At break time, Cian works out that each pupil's share of the biscuit packet costs **19.193 cents** on his calculator before rounding. Round **19.193** to the nearest hundredth.

- 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 The 5th class weather station logs the temperature each morning at the bird feeder for four days. The readings in $^{\circ}\text{C}$ 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

- 5 At granny's house after Sunday dinner, Oisín helps share out the cost of the takeaway dessert between the cousins. His calculator shows each cousin owes 76.272 before he rounds to euros and cents. What is 76.272 rounded to the nearest hundredth?

Round 76.272 to the nearest hundredth.