

Rounding whole numbers to estimate in context

MODULE 1 · PLACE VALUE, DECIMALS AND THE NUMBER SYSTEM

NUMBER

HOW TO ANSWER TODAY

- **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). $\cdot 7.36 \rightarrow 7.4$.

- **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** 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.

- 2 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.

- 3 5th class baked sponge cakes for the Junior Infants playground fundraiser. Each tray of sponge needs **74.85 grams** of sugar, but the kitchen scales only show one decimal place. What is **74.85** rounded to the nearest tenth of a gram?

Round 74.85 to the nearest tenth.

- 4 At the Saturday farmers' market in Galway, the stallholder weighs a bag of potatoes and the scales show **95.31 kg** of spuds sold by lunchtime. She wants to write the total on her board to the nearest tenth of a kilogram. What does she write?

Round 95.31 to the nearest tenth.

- 5 The Cumann na mBunscol website reports that 485,708 pupils have taken part in school blitzes across the country since the competition began. Write 485,708 in expanded form.