

Rounding decimals to nearest whole, tenth and hundredth

MODULE 1 · PLACE VALUE, DECIMALS AND THE NUMBER SYSTEM NUMBER

Look at the digit **just to the right** of the place you are rounding to. **5 or more rounds up**; 4 or less stays.



- 3.47 to the nearest tenth → look at the 7 → **3.5**.
- 12.834 to the nearest hundredth → look at the 4 → **12.83**.

ROUND 7.382 TO THE NEAREST TENTH AND THE NEAREST HUNDREDTH

- 1 Nearest **tenth**: look at the hundredths digit (8). $8 \geq 5$, so round up → **7.4**.
- 2 Nearest **hundredth**: look at the thousandths digit (2). $2 < 5$, so stay → **7.38**.

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 → 7.3 (the 4 is less than 5). · 7.36 → 7.4.

WARM-UP

- a. Round 47.1 to the nearest whole number.
- b. Round 98.3 to the nearest whole number.
- c. Round 59.6 to the nearest whole number.
- d. Round 15.2 to the nearest whole number.

PRACTICE

- 1 The tuck shop float at the end of break shows **23.96** on the calculator after Síle totals the coins. She needs to round the figure to one decimal place for the weekly tally sheet. What is **23.96** rounded to the nearest tenth?
- 2 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.

CHALLENGE

- 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.