

Rounding decimals to the nearest whole, tenth, hundredth

MODULE 1 · PLACE VALUE AND THE DECIMAL NUMBER SYSTEM NUMBER

To round a decimal, look at the digit just to the right of the place you're rounding to. If it is **5 or more, round up**. If it is **less than 5, round down**.

→ 4.78 to the nearest tenth → 4.8 (the 8 is 5 or more).

→ 4.74 to the nearest tenth → 4.7 (the 4 is less than 5).

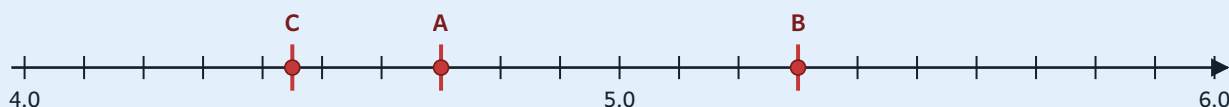
HOW TO ANSWER TODAY

- **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.

TRY IT ON THE LINE

A, B and C are already marked on the line. For each, write the whole number it rounds to. Then mark D yourself and round it.



1. A is at 4.7 — rounds to ____ (nearest whole).
2. B is at 5.3 — rounds to ____ (nearest whole).
3. C is at 4.45 — rounds to ____ (nearest whole) and ____ (nearest tenth).
4. Now mark D = 5.85 on the line yourself. Rounds to ____ (nearest whole).

PRACTICE

- 1 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.

- 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 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.

- 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.