

Decimals to thousandths

MODULE 1 · PLACE VALUE AND THE DECIMAL NUMBER SYSTEM

NUMBER

After tenths and hundredths, the **third place after the decimal point** is **thousandths** — one part in 1 000.

- **0.123** = 1 tenth + 2 hundredths + **3 thousandths**.
- **4.025** = 4 units + 0 tenths + 2 hundredths + **5 thousandths**.
- 0.123 is read '**one hundred and twenty-three thousandths**'.

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.

TRY IT ON THE LINE

Write each decimal into the U/t/h/th mat — one digit per cell. Underline the thousandths digit on each row.

U	t	h	th

1. Build **0.005**.
2. Build **0.034**.
3. Build **0.207**.
4. Build **1.045**.
5. Build **2.305**.

PRACTICE

- 1 The 5th class bake sale raised **€75.29** on Friday. The class spent **€23.87** of it on ingredients for the next batch. How much money is left from the bake sale?
- 2 5th class held a bake sale at break to raise money for the school garden. The cupcake tray made **€74.76** and the brownie tray made **€35.21**. How much did the two trays make in total?

CHALLENGE

- 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 The Cumann na mBunscol committee tracks the school's sponsored cycle on a spreadsheet. By Friday the 5th-class group has logged **88.644 km** and the 6th-class group has logged **19.422 km**. How many more kilometres has 5th class cycled than 6th class?