

# Reading decimals to tenths and hundredths

MODULE 1 · PLACE VALUE AND THE DECIMAL NUMBER SYSTEM NUMBER

Each digit in a decimal sits in a place. Reading from the decimal point: tens, units, **then tenths, hundredths, thousandths.**

→ **12.45** → 1 ten, 2 units, 4 tenths, 5 hundredths.

→ **0.07** → 0 units, 0 tenths, 7 hundredths.

### HOW TO ANSWER TODAY

- **Order of operations.** Brackets first, then  $\times$  and  $\div$ , then  $+$  and  $-$ . Inside each group, work LEFT to RIGHT.

$$3 + 2 \times 5 \rightarrow 3 + 10 = 13 \cdot (4 + 2) \times 3 \rightarrow 6 \times 3 = 18$$

- **Expanded form (decimals).** Write the decimal as a sum of its parts: ones, tenths, hundredths. Skip any part that is 0.

$$4.52 = 4 + 0.5 + 0.02 \cdot 0.07 = 0.07$$

- **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 mat – one digit per cell. The dot between U and t is the decimal point.

U	t	h
	.	
	.	
	.	
	.	
	.	

1. Build **0.27**.
2. Build **1.05** (note the zero in the tenths column).
3. Build **2.30** (note the trailing zero in the hundredths column).
4. Build **0.06**.
5. Build **0.43**.

### PRACTICE

- 1 Saoirse weighs out **5.71 kg** of duck feed for the wardens at the local pond. Write **5.71** in expanded form, showing the ones, tenths and hundredths parts.

- 2 At the Cumann na mBunscol blitz in the county grounds, Tadhg records that his team's average score per match is **6.96** points. Write **6.96** in expanded form, showing the ones, tenths and hundredths parts.

### 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 Ms Murphy marks the 5th class sprint times on a number line on the board before the pupils line up at the door for yard. Cian's time was **3.387 seconds** over the class average. Between which two whole numbers does **3.387** sit on the number line, and which whole number is it closer to?