

Multiplying decimals by whole numbers

MODULE 2 · OPERATIONS AND COMPUTATIONAL FLUENCY NUMBER

Multiply as if there were **no decimal point**, then put the point back so the answer has the **same number of decimal places** as the decimal you started with.

→ $3.4 \times 6 \rightarrow 34 \times 6 = 204 \rightarrow 20.4$.

→ Check by estimating: $3.4 \times 6 \approx 3 \times 6 = 18$.

	$\times 30$	$\times 4$
6	180	24

Total: $180 + 24 =$

WORK OUT 3.4×6

- 1 Ignore the point: $34 \times 6 = 204$.
- 2 3.4 has **one** decimal place, so the answer has one: **20.4**.
- 3 Check: $3.4 \times 6 \approx 3 \times 6 = 18$, so 20.4 is sensible.

WARM-UP

- a. $69 \times 5 =$ b. $29 \times 9 =$ c. $13 \times 5 =$ d. $85 \times 5 =$

PRACTICE

- 1 Saoirse is making sandwiches for the 5th class picnic in Phoenix Park. Each sandwich uses **26.1 grams** of cheese, and she needs to make **7** sandwiches. How much cheese does she need in total?
- 2 Aoife brings **25.9 g** of oats to the pond each Saturday to feed the ducks. Over **9** Saturdays in a row, how many grams of oats has she brought in total?

CHALLENGE

- 1 Mr Ó Briain orders **35** boxes of pencils for the classroom store at the start of the year. Each box holds **85** pencils. How many pencils does he order in total?
- 2 Cara's 5th class watches the bird-feeder at the classroom window every school day. On average, **29** small birds visit the feeder each day, and the class counts for **97** school days in total. How many bird visits does the class record altogether?