

Multiplying a 2-digit number by 1 digit – partition and the grid method

GRID METHOD 34×6

- Split 34 into tens and units: $30 + 4$.
- Tens box: $30 \times 6 = 180$.
- Units box: $4 \times 6 = 24$.
- Add the parts: $180 + 24 = 204$.

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

Total: $180 + 24 = 204$

WARM-UP

Use the split-rectangle boxes to work out each multiplication.

	$\times 20$	$\times 3$
4	80	12

- Work out 26×3 . Split 26 into 20 and 6, then fill the boxes.
- Work out 45×4 . Split 45 into 40 and 5, then fill the boxes.
- Work out 62×5 . Split 62 into 60 and 2, then fill the boxes.

PRACTICE

- A shop stacks 9 shelves and each shelf holds 53 tins of beans. How many tins are on the wall altogether? Split 53 into 50 and 3.
- A market crate holds 68 apples and the greengrocer buys 2 crates. How many apples is that in total? Split 68 into 60 and 8.
- A sticker sheet has 21 fruit stickers and Sam sticks 4 sheets in the shop window. How many stickers are used? Split 21 into 20 and 1.
- The deli sells cones and each tray holds 34 cones, with 5 trays on the counter. How many cones are there? Split 34 into 30 and 4.
- Each shopping bag holds 47 buns and the baker fills 6 bags for the fair. How many buns is that altogether? Split 47 into 40 and 7.

SPOT THE MISTAKE

Cian works out 23×4 like this:

$$\begin{aligned} 2 \times 4 &= 8 \\ 3 \times 4 &= 12 \\ \text{So } 23 \times 4 &= 812 \end{aligned}$$

Find Cian's mistake. What's the correct answer?

The mistake _____ Correct answer _____

REFLECT

Did the grid make the parts of the product clearer for you?