

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: $180 + 24 = 204$.

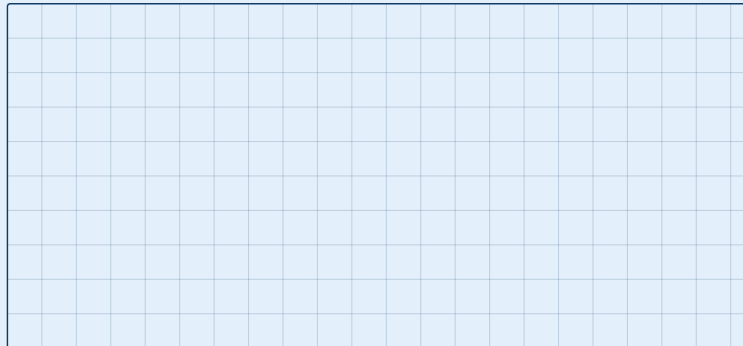
	$\times 30$	$\times 4$
6	180	24

Total: $180 + 24 =$

WARM-UP

Draw a split rectangle in the squared space and work each multiplication into two boxes.

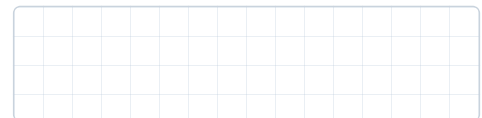
Working



- Draw a rectangle split into two boxes for 34×6 , label 30×6 and 4×6 , then add the partial products.
- Draw a rectangle split into two boxes for 46×5 , label 40×5 and 6×5 , then add the partial products.
- Draw a rectangle split into two boxes for 47×6 , label 40×6 and 7×6 , then add the partial products.

PRACTICE

- A shop stacks 6 shelves and each shelf holds 34 tins of beans. How many tins are on the wall altogether? Split 34 into 30 and 4.



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?

IRISH FACT Seats on a school coach

An Irish school coach often has 53 seats. Three full coaches for a school tour would seat 159 pupils and teachers.

Typical Irish coach hire



REFLECT Did the array or the grid make the parts of the product clearer for you?