

WORK OUT 243×4 BY SPLITTING

- 1 Split 243 into **200 + 40 + 3**.
- 2 Multiply each part by 4: $200 \times 4 = \mathbf{800}$, $40 \times 4 = \mathbf{160}$, $3 \times 4 = \mathbf{12}$.
- 3 Add the three parts: $800 + 160 + 12 = \mathbf{972}$.

	$\times 200$	$\times 40$	$\times 3$
4	800	160	12

Total: $800 + 160 + 12 = 972$

 WARM-UP

Use the squared space to split and multiply each 3-digit number.

Working

[illegible]

1. Split 243 into $200 + 40 + 3$, multiply each part by 4, then add the three parts for 243×4 .
2. Split 327 into $300 + 20 + 7$, multiply each part by 3, then add the three parts for 327×3 .
3. Split 215 into $200 + 10 + 5$, multiply each part by 4, then add the three parts for 215×4 .

PRACTICE

- 1 A GAA club orders 243 club jerseys and each pack of 4 crests is stitched on one jersey. How many crests are stitched altogether for 243×4 ?
- 2 A GAA fundraiser sells 215 raffle tickets on each of 4 match days. How many tickets is 215×4 in all?

! SPOT THE MISTAKE

Sean works out 234×3 like this:

$$200 \times 3 = 600$$

$$30 \times 3 = 90$$

$$4 \times 3 = 12$$

$$600 + 90 + 12 = 602$$

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

Page 10 of 10

REFLECT

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