RECALL

Calculate how much it would cost for:

a) Six t-shirts
b) Seven jumpers
c) Three hats
d) Nine dresses
e) Eleven pairs of shorts

CHALLENGE:
I buy one dress, two hats and four jumpers but I only have £100. Can I afford them?

L.O. MULTIPLY MULTI-DIGIT NUMBER UP TO 4 DIGITS BY A 2-DIGIT NUMBER USING THE FORMAL WRITTEN METHOD OF LONG MULTIPLICATION.

- SOME WILL EVEN: APE to explain WHY

APE

- SOME WILL: Use various ways to solve and check sums.
- MOST WILL: Use column multiplication for 2-digit numbers.
- ALL WILL: Use column multiplication for 1-digit numbers.

MY TURN

Miss Curry has taken her class out for dinner. She has 33 children in total.

a) 12 children want fish and chips. 9 children want Bacon and egg rolls and the rest want pie and chips. Can you calculate her total?

b) Would it be cheaper for her to say everybody will have pie and chips?

help

Work with a partner and share the work.
Use column method carefully.

YOUR TURN

Miss Curry has taken her class out for dinner. She has 33 children in total.

a) 15 children want fish and chips. 9 children want Bacon and egg rolls and the rest want pie and chips. Can you calculate her total?

b) Would it be cheaper for her to say everybody will have pie and chips?

help

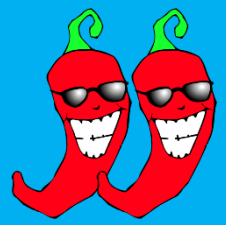
Work with a partner and share the work.
Use column method carefully.

CHALLENGE!

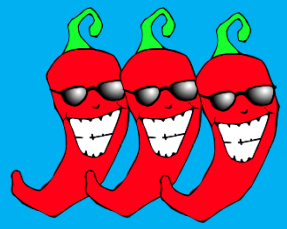
Mrs Reynolds has given Miss Curry £108.90 which she says gives each child an equal amount to spend. How much would each child have to spend? What could they buy?

Intelligent Practice

1234	1234	1234
x 13	x 14	x 15
———	———	———
———	———	———



1234	1234	1234
x 23	x 33	x 43
———	———	———
———	———	———



3456	5634	3456
x 56	x 73	x 88
———	———	———
———	———	———

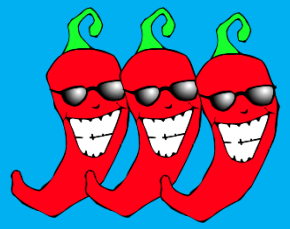
3456

x 153

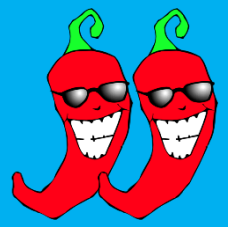
How would you calculate this sum?

Intelligent Practice

1234	1234	1234
x 13	x 14	x 15
16,042	17,276	18,510



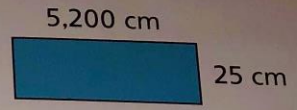
3456	5634	3456
x 56	x 73	x 88
193,536	411,282	304,128



1234	1234	1234
x 23	x 33	x 43
28,382	40,722	54,296

3456
x 153
10,368
172,800
345,600
528,768

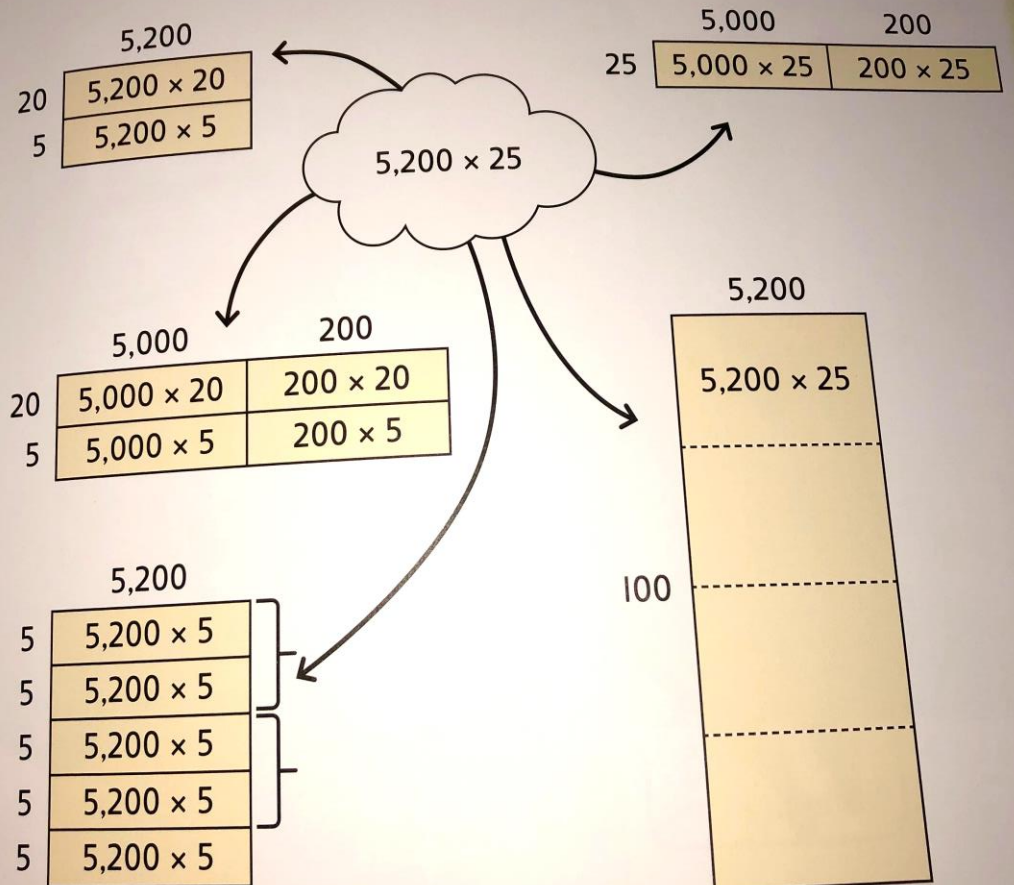
3 Isla is calculating the area of this rectangle.



CHALLENGE

She uses five different methods to find the solution.

Try out each of Isla's methods. Do they all produce the same answer?



Copy and complete these sums and then check your answer using column multiplication.
Which method is easiest/hardest?

4) **Estimate then work out which of the multiplications is closest to 70 000.**

1 Abigail

Estimate is 60000

$$\begin{array}{r} 6537 \\ \times\ \ 12 \\ \hline \end{array}$$

12 6537

3 Naima

24 3531

5 Sameer

18 2035

2 Caitlin

24 2679

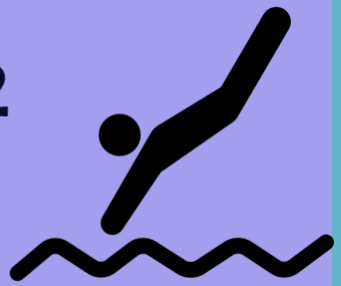
4 Chuy

39 1748

6 Kerry

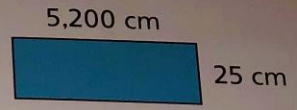
17 3897

DIVE DEEPER 2



$3{,}62\square \times \square 5 = 199{,}595.$

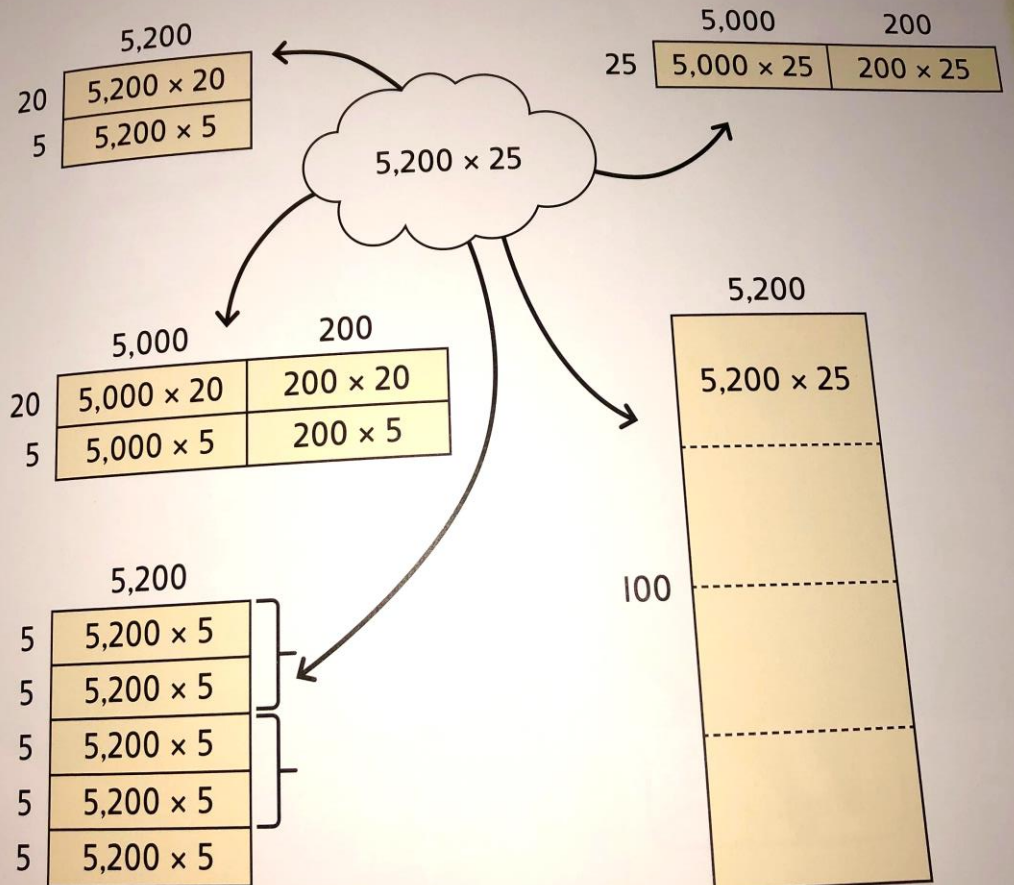
3 Isla is calculating the area of this rectangle.



CHALLENGE

She uses five different methods to find the solution.

Try out each of Isla's methods. Do they all produce the same answer?



Copy and complete these sums and then check your answer using column multiplication.
Which method is easiest/hardest?

4) Estimate then work out which of the multiplications is closest to 70 000.

1 Abigail

Estimate is 60 000

6537 × 12

78,444

3 Naima

84,744

5 Sameer

36,630

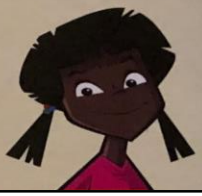
2 Caitlin

64,296

4 Chuy

68,172

6 Kerry



66,249

DIVE DEEPER 2

3,62[9] × [5]5 = 199,595.

NRICH

	1	a	b	c	d	e
x						3
	a	b	c	d	e	1

	2	f	g	h	i	j
x						3
	f	g	h	i	j	2

Can you replace the letters with numbers?
Is there only one solution in each case?