

C = 3, so $A \times 3 = D$. If A were 2, this would give 6, adding the regrouped I to mak D = 7. However, in the hundreds column, $A \times C = 2 \times 3 = 6$. This does not work with the letters for the first product. Therefore, A must be 7 and D must be 2.

		×		3	3	2	D
		2	3	2	5	3	с
	2	3	2	5	0	5	В
e	2	5	5	7	5	7	A

1) Complete these calculations using long multiplication.



876cm

1) Laila has been practising long multiplication. For each question, spot the mistake she has made and explain where she has gone wrong. Then, complete the calculation and work out the correct answer.



		5	2	2		5	2	2
	×		4	4		x	4	
	2	0	8	8	(522 x 4)			<u> </u>
	2	0	8	8	(522 x 40)		_	\vdash
	4	1	7	6				-
Ľ		1			-			
			6	5	3	6	5	
		×		2	3	×	2	
		1	9 1	5	9			-
	1	2	0	6	0			\vdash
	1	4	0	1	9			-
		1	1					
						2	2	-
			2	3	/		3	
		×		6	2	×	6	
			4	7	4			1
	1	4 2	2	2	0			-
	1	7	1	0	4			+
1 k		1	1		·			

2) Twinkl Garden Centre is ordering bulbs and packets of seeds for spring. They order 604 boxes of bulbs and 726 packets of seeds. There are 34 bulbs in a box and 28 packets of seeds in a bag.

a) How many bulbs will arrive in total? _____

b) How many packets of seeds will arrive in total? _____

c) How many more bulbs will they have than packets of seeds? _____

1) Identify the missing digits in these calculations.



			5	3
	×			6
	3			8
2		1	2	0
		0	3	8

2) Each letter matches a number – either 2, 3, 5 or 7. Can you work out which letter corresponds to which number to solve the calculation correctly? The zero placeholder has been put into the calculation for you.

		А	А	В	Number	Letter
	×		С	С	2	
	D	С	D	В	3	
D	С	D	В	0	5	
D	В	В	А	В	7	





Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:



These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

Aim

• Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.



Multiply 3 Digits by 2 Digits Diving

Complete these calculations using long multiplication.

328 × 73 = 23 944



357 × 21 = 7497

Regent Studies | www.regentstudies.com

Multiply 3 Digits by 2 Digits Diving

Ms Green, the Twinkl School site manager, is working out the area of the class flowerbeds ready for the children to plant some seeds.



Multiply 3 Digits by 2 Digits Deeper

Alex has been practising long multiplication. For each question, spot the mistake he has made and explain where he has gone wrong. Then, complete the calculation and work out the correct answer.

			4	3	5
		×		2	6
		2	6 2	 3	0
=		8	7	0	0
	1	1	3	1	0

Alex has not used zero as a placeholder when calculating 5 × 20, so the answer to this has been recorded as 10 rather than 100.

		2	4	5
	×		7	3
		7	3	5
1	7 3	 3	5	0
1	7	8	8	5

Alex did not record the regrouped ten from 5×3 .

Multiply 3 Digits by 2 Digits Deeper

Twinkl Primary School is ordering stationery ready for September.

357 boxes of pencils and 223 boxes of pens are ordered. Pens come in boxes of 26 and pencils come in boxes of 34.

How many pencils have they ordered altogether?

357 × 34 = 12 138

What is the total number of pens that they ordered?

223 × 26 = 5798

Multiply 3 Digits by 2 Digits

Deepest

Identify the missing digits in these calculations.



		6	2	7
	×		4	2
	1	2	5 1	4
2	5 1	0	8	0
2	6	3	3	4

27/11.7

Multiply 3 Digits by 2 Digits

Dive in by completing your own activity!







- seeds. There are 34 bulbs in a box and 28 packets of seeds in a bag.
- a) How many bulbs will arrive in total?
- **b)** How many packets of seeds will arrive in total?
- **c)** How many more bulbs will they have than packets of seeds?

 Complete these calculations using long multiplication.

α) 238 × 43

b) 564 × 73

c) 856 × 35

2) Mr Star, the Twinkl Academy site manager, is working out the area of the class flowerbeds ready for the children to plant some seeds.





- c) _____ cm²
- Laila has been practising long multiplication. For each question, spot the mistake she has made and explain where she has gone wrong. Then, complete the calculation and work out the correct answer.



	5	2	2	
×		4	4	
2	0	8	8	(522 x 4)
2	0	8	8	(522 x 40)
4	1	7	6	
	1			-

a)

h) 1						- A I		_
U)			6	5	3	C)		
		×		2	3			
		1	9 1	5	9			
	1	2	0	6	0		1	
	1	4	0	1	9		1	
		1	1					

c)			2	3	7	
		×		6	2	
			4	7 1	4	
	1	4 2	2 4	2	0	
	1	7	1	0	4	
		1	1			

2) Twinkl Garden Centre is ordering bulbs and packets of seeds for spring.

They order 604 boxes of bulbs and 726 packets of seeds. There are 34 bulbs in a box and 28 packets of seeds in a bag.

- a) How many bulbs will arrive in total?
- **b)** How many packets of seeds will arrive in total?
- **c)** How many more bulbs will they have than packets of seeds?

1) Identify the missing digits in these calculations.



_										
			4						5	3
		×			2		×			6
			8	5	4		3			8
	1	2		1	0	2		1	2	0
	1		6		4			0	3	8

2) Each letter matches a number – either 2, 3, 5 or 7. Can you work out which letter corresponds to which number to solve the calculation correctly? The zero placeholder has been put into the calculation for you.

		Α	Α	В
	×		С	С
	D	С	D	В
D	С	D	В	0
D	В	В	A	В

1		
	Number	Letter
	2	
	3	
	5	
	7	

1) Identify the missing digits in these calculations.



		4						5	3
	×			2		×			6
		8	5	4		3			8
1	2		1	0	2		1	2	0
1		6		4			0	3	8

2) Each letter matches a number – either 2, 3, 5 or 7. Can you work out which letter corresponds to which number to solve the calculation correctly? The zero placeholder has been put into the calculation for you.

		А	А	В
	×		С	С
	D	С	D	В
D	С	D	В	0
D	В	В	А	В

Number	Letter
2	
3	
5	
7	