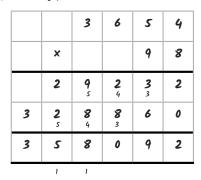
1)) a) 2238	×	43	=	96	234	
----	-----	--------	---	----	---	----	-----	--

5604 × 73 = 409 092 8516 × 35 = 298 060

2) a) The woodlands have a greater area.

b) Area of park = **385 092**m²



rea c	of woo	odlan	ds = 3	391 66	4 m
		7	5	3	2
	x			5	2
	1	5 1	0	6	4
3	7 2	6	6 1	0	0
3	9	1	6	6	4
	1				

1)	a) 4520 × 35 = 36 160	The correct answer is 158 200. Helena has not put the zero placeholder in when calculating 4520 × 30. 20 × 30 = 600 and not 60.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	X
	b) 7648 × 27 = 206 496			
	c) 2112 × 18 = 38 006	The correct answer is 38 016. Helena has not recorded the regrouped ten from 2 × 8 = 16.	2 1 1 2 × 1 8 1 6 8 9 6 2 1 1 2 0 3 8 0 1 6	x

2)) (507 70	6587 x 72 = 474 264
	a) 6587 × 72	500 000 - 474 264 = 25 736
	b) 7204×69	7206 x 68 = 490 008
	b) 7206 × 68	500 000 - 490 008 = 9992
		5982 x 84 = 502 488
	c) 5982 × 84	502 488 - 500 000 = 2488
		This is the closest answer to 500 000.

								1				
1)		2	4	2	7				4	6	5	3
	×			3	2			×			4	6
		4	8	5	4			2	7	9	1	8
	7	2	8	1	0		1	8	6	1	2	0
	7	7	6	6	4		2	1	4	0	3	8
2)							_		0			
2)			3	2	S	•	4					
2)		x	3	2	S 3	_	4 6	,			, ,	
2)		x 1	3 9	2 5	_				й			
2)					3		6					A
)	1	1	9	5	3 2		6 4					~

2238 × 4	+3 =	5604 × 73 =	8516 × 35	=	_	
×		×	×		-	
					_	
					-	
		d also and a los Tarial			1	
Here are pl	ans of the park and 3654m	d the woodlands in Twink	7532m			
98m	Park	52m	Woodlands			
b) Use long	multiplication to	calculate both areas to fi	park or the woodlands? nd out if you were correct			
b) Use long		calculate both areas to fi				
b) Use long	multiplication to	calculate both areas to fi	nd out if you were correct			
b) Use long	multiplication to	calculate both areas to fi	nd out if you were correct			
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b) Use long	multiplication to	calculate both areas to fi	nd out if you were correct			
b) Use long	multiplication to	calculate both areas to fi	nd out if you were correct			
b) Use long	multiplication to	calculate both areas to fi	nd out if you were correct			

1) Helena has answered some calculations using long multiplication but she has not recorded her working out.



Tick the correct answers and cross the incorrect ones.

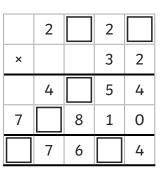
For each incorrect answer, explain the mistake she has made. To help with this, you may want to use some squared paper to work out each calculation yourself.

a) 4520 × 35 = 36 160]
b) 7648 × 27 = 206 496	
c) 2112 × 18 = 38 006	

2) Which of these calculations has the closest answer to 500 000? Prove it by working out each calculation yourself.

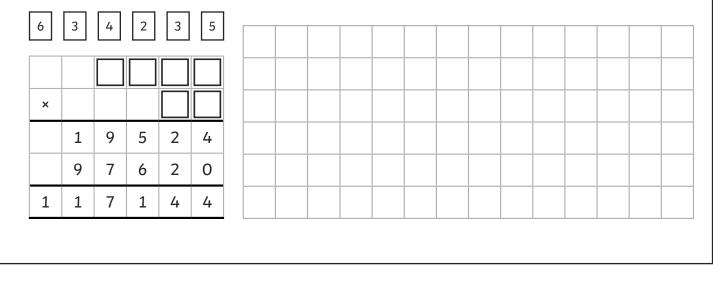
a) 6587 × 72										
b) 7206 × 68										
c) 5982 × 84										

1) Identify the missing digits in these calculations.



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

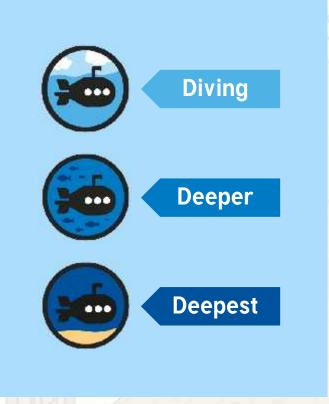
2) Carrie has created a calculation using digit cards but her cat has knocked the digit cards out of place. Can you put each digit card back in the right place to create Carrie's calculation?





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.

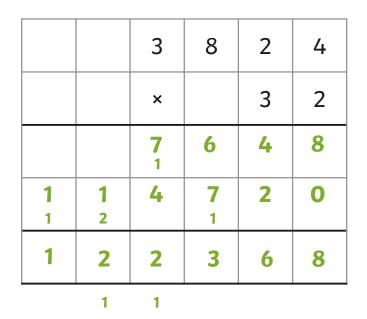


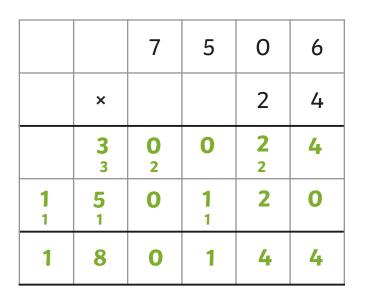
Multiply 4 Digits by 2 Digits Diving

Use long multiplication to complete these calculations.

3824 × 32 = 122 368

7506 × 24 = 180 144





Multiply 4 Digits by 2 Digits Diving



Here are plans of the playing fields and the outdoor pool in Twinkl Town. (The plans are not to scale.)

Which has a greater area? Make a prediction and then calculate to find out if you were correct.



Multiply 4 Digits by 2 Digits Deeper



Niamh has answered some calculations using long multiplication but she has not recorded her working out.

Tick the correct answers and cross the incorrect ones.

For each incorrect answer, explain the mistake she has made. You may need to work the calculations out yourself to help with this.

2087 × 65 = 22 957	4260 × 35 = 149 100	6748 × 27 = 47236	
Incorrect. The correct answer is 135 655. Niamh has not inserted a placeholder so has calculated 2087 × 60. She has calculated 2087 × 6 instead.	Correct.	Incorrect. The correct answer is 182 196. Niamh has multiplied 6748 by 7 but she has forgotten to multiply 6748 by 20.	
Mar 1 pr 1 1		A Read A Read	

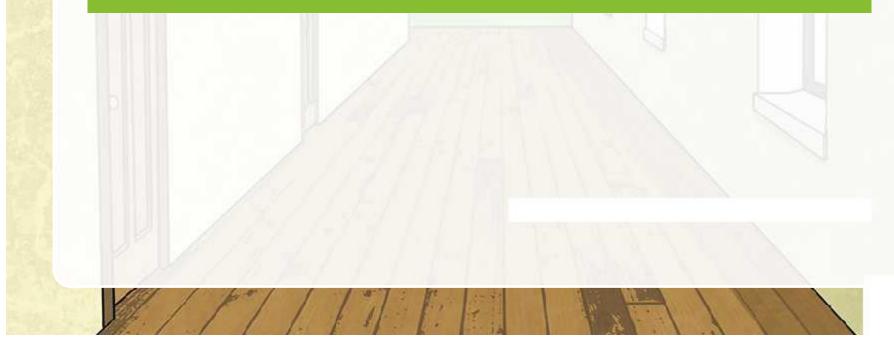
Multiply 4 Digits by 2 Digits Deeper



Which of these calculations has the closest answer to 400 000? Prove it!

5287 × 74	6247 × 65
5287 × 74 = 391 238	6247 × 65 = 406 055
400 000 - 391 238 = 8762	406 055 - 400 000 = 6055

6247 × 65 has the closest answer to 400 000.



Multiply 4 Digits by 2 Digits Deepest

Identify the missing digits in these calculations.

Here is one way of finding each answer.

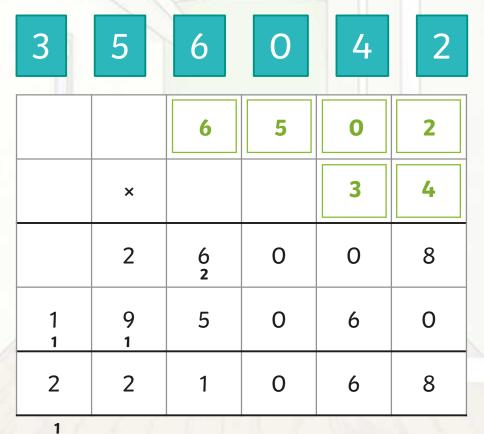
		3	2	4	5
	×			3	6
	1	9 1	4 2	7 3	0
	9	7	3 1	5	0
1	1	6	8	2	0

		6	4	2	7
	×			4	2
	1	2	8	5 1	4
2	5	7	0	8	0
2	6	9	9	3	4

Multiply 4 Digits by 2 Digits Deepest

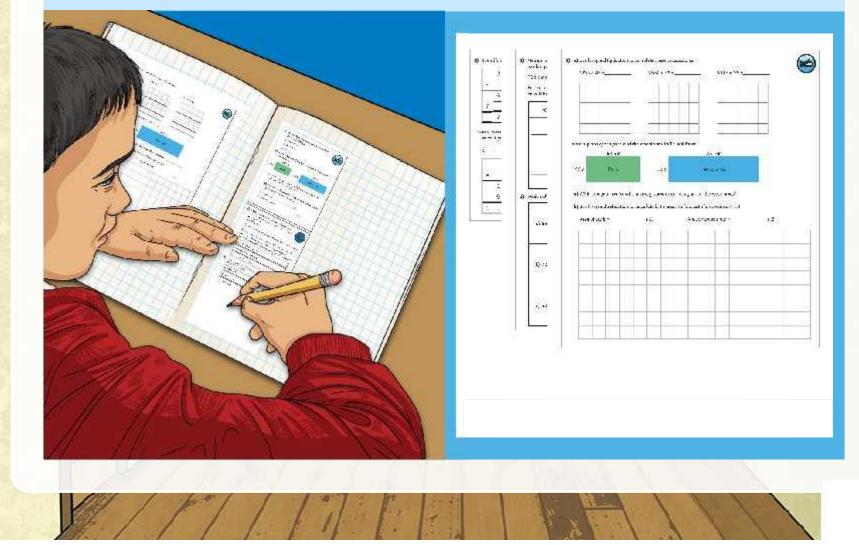


Carrie has created a calculation using digit cards but her cat has knocked the digit cards out of place. Can you put each digit card back in the right place to create Carrie's calculation?

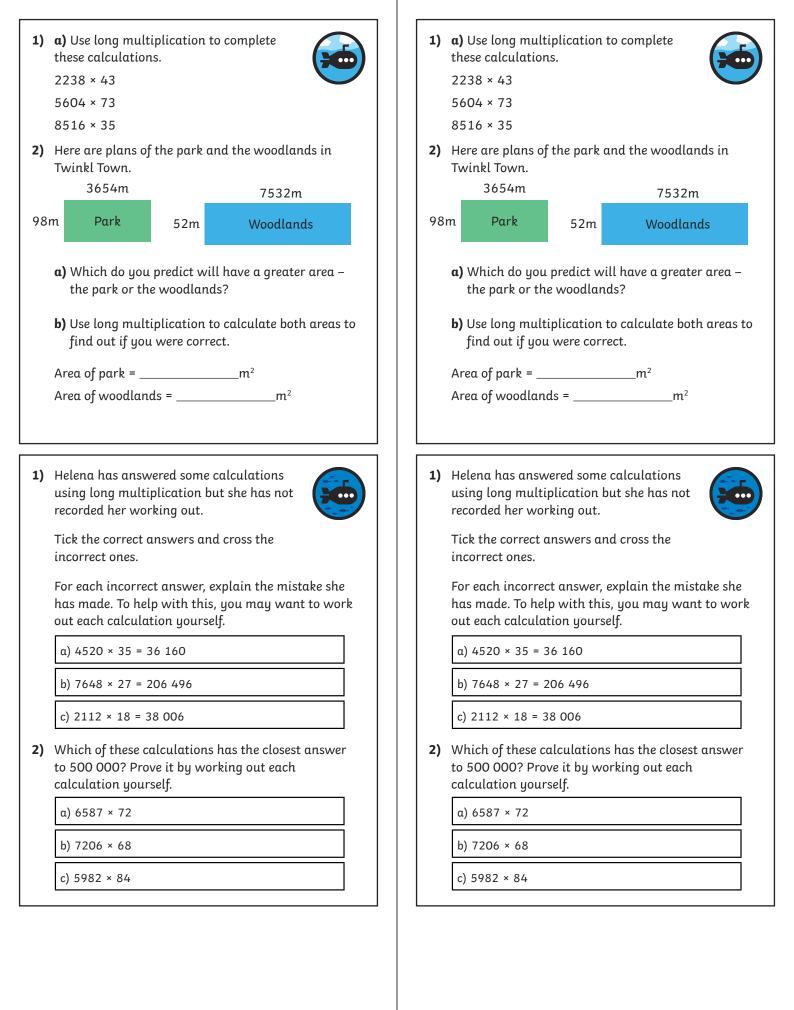


Multiply 4 Digits by 2 Digits

Dive in by completing your own activity!







1) Identify the missing digits in these calculations.

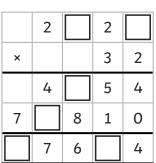
	2		2		
×			3	2	
	4		5	4	
7		8	1	0	
	7	6		4	

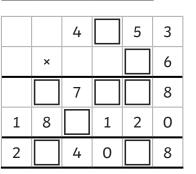
		4		5	3
	×				6
		7			8
1	8		1	2	0
2		4	0		8

2) Carrie has created a calculation using digit cards but her cat has knocked the digit cards out of place. Can you put each digit card back in the right place to create Carrie's calculation?

6	3	4	2	3	5	
×						
	1	9	5	2	4	
	9	7	6	2	0	
1	1	7	1	4	4	

1) Identify the missing digits in these calculations.





2) Carrie has created a calculation using digit cards but her cat has knocked the digit cards out of place. Can you put each digit card back in the right place to create Carrie's calculation?

6	3	4	2	3	5
×					
	1	9	5	2	4
	9	7	6	2	0
1	1	7	1	4	4

