



1) $32 \times 3 = 96$

	H	T	O	
		3	2	
x			3	
			6	(3 × 2)
+		9	0	(3 × 30)
		9	6	

	H	T	O	
		3	2	
x			3	
			9	6

2) a) $28 \times 7 = 196$

b) $59 \times 6 = 354$

c) $8 \times 74 = 592$

d) $5 \times 92 = 460$

$15 \times 5 = 75$

	H	T	O	
		1	5	
x			5	
		2	5	(5 × 5)
+		5	0	(5 × 10)
		7	5	

	H	T	O	
		1	5	
x			5	
			7	5
			2	

$44 \times 3 = 132$

	H	T	O	
		4	4	
x			3	
		1	2	(3 × 4)
+	1	2	0	(3 × 40)
	1	3	2	

	H	T	O	
		4	4	
x			3	
		1	3	2
	1	1		

1) False. When calculating using a columnar written method, you must always start with the lowest value digit place which in this instance would be the ones because then you are able to regroup when required.

2)

		2	4	
x			4	
		1	6	(4 × 4)
+		8	0	(4 × 20)
		9	6	

		2	4	
x			4	
			9	6
			1	

C is the odd one out because it represents the calculation $5 \times 24 = 120$ whereas the written methods A and B represent $4 \times 24 = 96$.



3) Stefan has calculated the multiplication of the tens and ones digits correctly, but he has forgotten to add on the regrouping of the 4 lots of ten. The answer should be 390.

		7	8	
x			5	
		3	9	0
		3	4	

1) a)

		5	2	
x			7	
		3	6	4
		3	1	

b)

		8	8	
x			3	
		2	6	4
		2	2	

c)

		6	8	
x			9	
		6	1	2
		6	7	

d)

		4	8	
x			8	
		3	8	4
		3	6	

2) There are 2 possible solutions.

		8	6	
x			4	
		3	4	4
		3	2	

A = 8
B = 6
C = 4
D = 3
E = 2

		3	6	
x			8	
		2	8	8
		2	4	

A = 3
B = 6
C = 8
D = 2
E = 4





1) a)

			H	T	O	
			2	3	3	
	x				3	
			6	9	9	

b)

			H	T	O	
			1	2	4	
	x				4	
			4	9	6	
				1		

c)

			H	T	O	
			2	5	7	
	x				2	
			5	1	4	
			1	1		

d)

			H	T	O	
			3	2	5	
	x				5	
			1	6	2	5
			1	1	2	

2)

			H	T	O	
			3	6	8	
	x				8	
			2	9	4	4
			2	5	6	

Hundreds	Tens	Ones



3) a) $458 \times 6 = 2748$

			H	T	O	
			4	5	8	
	x				6	
			2	7	4	8
			2	3	4	

b) $981 \times 3 = 2943$

			H	T	O	
			9	8	1	
	x				3	
			2	9	4	3
			2	2		

c) $808 \times 2 = 1616$

			H	T	O	
			8	0	8	
	x				2	
			1	6	1	6
			1		1	

d) $670 \times 5 = 3350$

			H	T	O	
			6	7	0	
	x				5	
			3	3	5	0
			3	3		

1) False. The largest 3-digit by 1-digit multiplication calculation is 999×9 . This calculation would require 3 lots of regrouping: the 80 ones regrouped into 8 tens, the 80 tens regrouped into 8 hundreds and the 80 hundreds regrouped into 8 thousands. It is impossible for regrouping to occur 4 times when multiplying a 3-digit number by a 1-digit number. You would need to be multiplying a 4-digit number by a 1-digit number for regrouping to happen 4 times.

			H	T	O	
			9	9	9	
	x				9	
			8	9	9	1
			8	8	8	



2) a)

		2	7	6	
	x			9	
		2	4	8	4
		2	6	5	

b)

		6	2	1	
	x			4	
		2	4	8	4
		2			

c)

		4	1	4	
	x			6	
		2	4	8	4
		2		2	

d)

		3	4	2	
	x			7	
		2	3	9	4
		2	2	1	

D is the odd one out because it is the only calculation with the answer 2394. The rest of the calculations all have an answer of 2484.

3) $453 \times 9 = 4077$

$499 \times 8 = 3992$

$851 \times 6 = 5106$






851×6 is the closest to 5000 because it is only 106 more than 5000. 3992 is 1008 less than 5000 and 4077 is 923 less than 5000.



1) There are only two possible calculations. Although 2 is a factor of 2608, 2 would need to be multiplied by a 4-digit number to give 2608.

			H	T	O
			6	5	2
	x				4
		2	6	0	8
		2	2		

			H	T	O
			3	2	6
	x				8
		2	6	0	8
		2	2	4	

2)	Child	Clue	Calculation
	Moirag 	The answer to my calculation is an even number.	C
	Polly 	The answer to my calculation is greater than 5000.	B
	Rocky 	The sum of the digits for the answer to my calculation is 16.	D
	Olga 	My calculation required no regrouping.	A
	Taj 	The answer to my calculation has a place holder.	E

A

			2	1	3
	x				3
		6	3	9	

B

			9	8	9
	x				7
		6	9	2	3
		6	6	6	

C

			5	9	4
	x				8
		4	7	5	2
		4	7	3	

D

			9	3	8
	x				8
		7	5	0	4
		7	3	6	

E

			3	7	5
	x				6
		2	2	5	0
		2	4	3	

1) Complete the missing parts in the table.



Calculation	Model	Expanded Multiplication	Short Multiplication																																																														
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2) Use short multiplication to solve these calculations.

a) $28 \times 7 =$

	H	T	O
\times			

b) $59 \times 6 =$

	H	T	O
\times			

c) $8 \times 74 =$

	H	T	O
\times			

d) $5 \times 92 =$

	H	T	O
\times			



1) Read the statement below. Is it true or false? Explain your answer.



When using short multiplication to multiply a 1-digit number by a 2-digit number, you must always start by multiplying the tens place digit by the single digit.

2) Which of these methods is the odd one out? Explain your reasoning.

(A)

		2	4
x			4
		<input type="text"/>	<input type="text"/>
		<input type="text"/>	

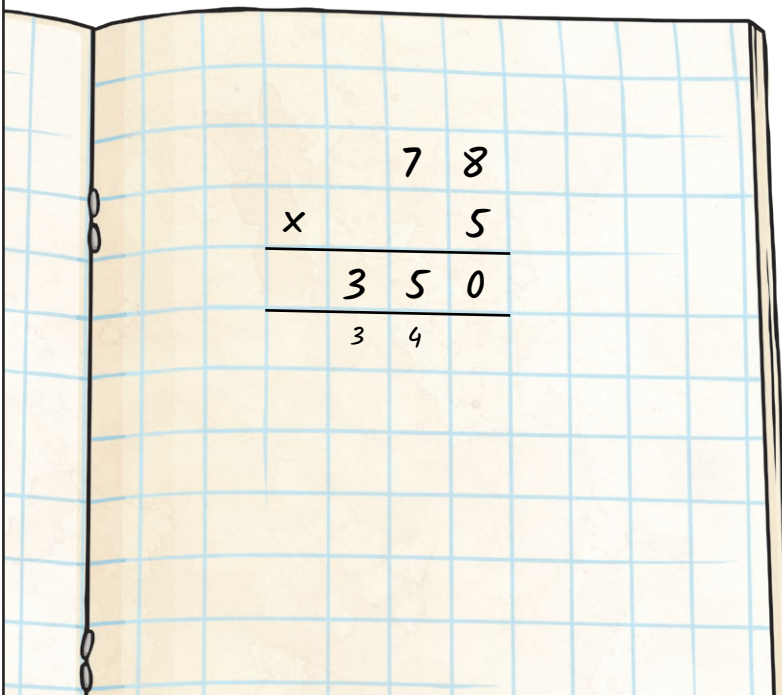
(B)

		2	4	
x			4	
		<input type="text"/>	<input type="text"/>	(<input type="text"/> × <input type="text"/>)
+		<input type="text"/>	<input type="text"/>	(<input type="text"/> × <input type="text"/>)
		<input type="text"/>	<input type="text"/>	

(C)

H	T	O			
	<input type="text"/> 10 <input type="text"/> 10	<input type="text"/> 1	<input type="text"/> 1	<input type="text"/> 1	<input type="text"/> 1
	<input type="text"/> 10 <input type="text"/> 10	<input type="text"/> 1	<input type="text"/> 1	<input type="text"/> 1	<input type="text"/> 1
	<input type="text"/> 10 <input type="text"/> 10	<input type="text"/> 1	<input type="text"/> 1	<input type="text"/> 1	<input type="text"/> 1
	<input type="text"/> 10 <input type="text"/> 10	<input type="text"/> 1	<input type="text"/> 1	<input type="text"/> 1	<input type="text"/> 1
	<input type="text"/> 10 <input type="text"/> 10	<input type="text"/> 1	<input type="text"/> 1	<input type="text"/> 1	<input type="text"/> 1

3) Can you identify and explain the mistake in Stefan's work? Then, work out the correct answer.





1) Complete the calculation to match each image.

a)

Hundreds	Tens	Ones

	H	T	O
	2	3	3
x			3

b)

Hundreds	Tens	Ones

	H	T	O
x			

c)

Hundreds	Tens	Ones

	H	T	O
x			

d)

Hundreds	Tens	Ones

	H	T	O
x			

1) Read the statement below. Is it true or false? Prove it and explain your reasoning.



If I am multiplying a 3-digit number by a 1-digit number, the maximum number of times I will need to regroup is 4.

2) Calculate the answers to these short multiplications. Which is the odd one out? Explain your reasoning.

a)

		2	7	6
x				9

b)

		6	2	1
x				4

c)

		4	1	4
x				6

d)

		3	4	2
x				7

3) Which of these calculations is nearest to 5000? Prove it and explain how you know.

$453 \times 9 =$

$499 \times 8 =$

$851 \times 6 =$








1) The answer to a 3-digit number multiplied by a 1-digit number is 2608. What could the possible calculations be?

	x				

	x				

2) The children were each given a different multiplication to complete but forgot to write their names on their work. Calculate the answer to each multiplication. Then, read the clues carefully to identify which calculation each child completed.

Child	Clue	Calculation
Moirag 	The answer to my calculation is an even number.	
Polly 	The answer to my calculation is greater than 5000.	
Rocky 	The sum of the digits for the answer to my calculation is 16.	
Olga 	My calculation required no regrouping.	
Taj 	The answer to my calculation has a place holder.	

A

			2	1	3
	x				3

B

			9	8	9
	x				7

C

			5	9	4
	x				8

D

			9	3	8
	x				8

E

			3	7	5
	x				6

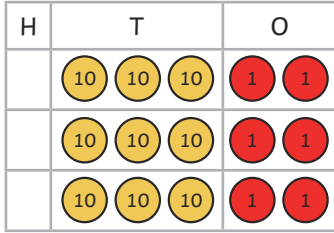
1) Copy the multiplication calculations in this table then complete the missing parts.



$$32 \times 3 = \boxed{}$$

	H	T	O
		3	2
\times			3
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		<input type="text"/>	<input type="text"/>
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(3×2)
(3×30)



H	T	O
	3	2
\times		3
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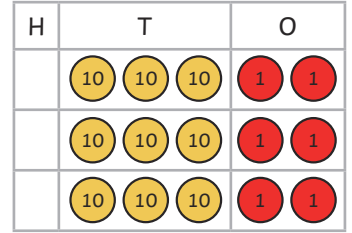
1) Copy the multiplication calculations in this table then complete the missing parts.



$$32 \times 3 = \boxed{}$$

	H	T	O
		3	2
\times			3
<hr/>			
		<input type="text"/>	<input type="text"/>
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		<input type="text"/>	<input type="text"/>

(3×2)
(3×30)

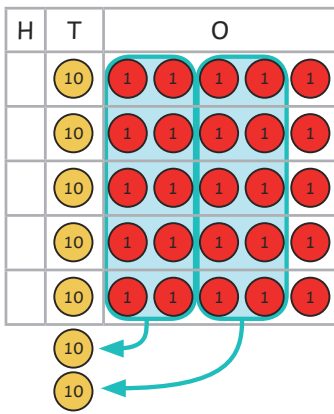


H	T	O
	3	2
\times		3
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	<input type="text"/>	<input type="text"/>
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	H	T	O
		1	5
\times			5
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($ \times $)
($ \times $)

$$15 \times 5 = \boxed{}$$

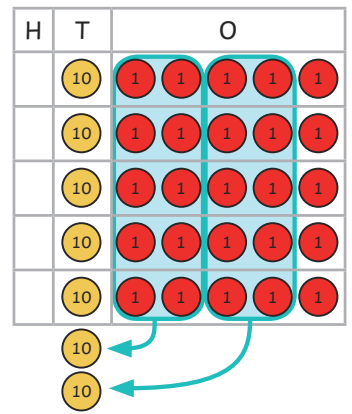


	H	T	O
		1	5
\times			5
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		<input type="text"/>	<input type="text"/>
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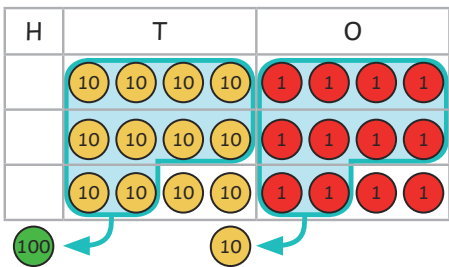
	H	T	O
		1	5
\times			5
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($ \times $)
($ \times $)

$$15 \times 5 = \boxed{}$$



	H	T	O
		1	5
\times			5
<hr/>			
		<input type="text"/>	<input type="text"/>
		<input type="text"/>	<input type="text"/>
		<input type="text"/>	<input type="text"/>



	H	T	O
		<input type="text"/>	<input type="text"/>
\times			<input type="text"/>
<hr/>			
	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>

$$\boxed{} \times \boxed{} = \boxed{}$$

	H	T	O
		<input type="text"/>	<input type="text"/>
\times			<input type="text"/>
<hr/>			
	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>

($ \times $)
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2) Use short multiplication to solve these calculations.

- a) 28×7
- b) 59×6
- c) 8×74
- d) 5×92

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- 1) Read the statement below. Is it true or false? Explain your answer.



When using short multiplication to multiply a 1-digit number by a 2-digit number, you must always start by multiplying the tens place digit by the single digit.

- 2) Which of these methods is the odd one out? Explain your reasoning.

(A)

		2	4	
x			4	

(B)

		2	4	
x			4	
				(<input type="text"/> x <input type="text"/>)
+				(<input type="text"/> x <input type="text"/>)

(C)

	H	T	O			
		10 10	1	1	1	1
		10 10	1	1	1	1
		10 10	1	1	1	1
		10 10	1	1	1	1
		10 10	1	1	1	1

- 3) Can you identify and explain the mistake in Stefan's work? Then, work out the correct answer.

$$\begin{array}{r}
 78 \\
 \times 5 \\
 \hline
 350 \\
 \hline
 34
 \end{array}$$

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1) Can you identify the missing digits in these calculations?

a)

		5	
x			7
			4
			1

b)

		8	
x			3
			4
	2	2	

c)

			8
x			
	6	1	2

d)

		4	
x			8
		8	

2) Each letter stands for a number - 2, 3, 4, 6 or 8.
Can you identify which letter represents each number to solve the calculation?

		A	B
x			C
	D	C	C
	D	E	



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x			7
			4
			1

b)

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x			3
			4
	2	2	

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x			
	6	1	2

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		E	

1) Complete the calculation to match each image.



a) 233×3

Hundreds	Tens	Ones
100 100	10 10 10	1 1 1
100 100	10 10 10	1 1 1
100 100	10 10 10	1 1 1

b)

Hundreds	Tens	Ones
100	10 10	1 1 1 1 1
100	10 10	1 1 1 1 1
100	10 10	1 1 1 1 1
100	10 10	1 1 1 1 1

c)

Hundreds	Tens	Ones
100 100	10 10 10 10 10	1 1 1 1 1 1 1
100 100	10 10 10 10 10	1 1 1 1 1 1 1

d)

Hundreds	Tens	Ones
100 100 100	10 10	1 1 1 1 1 1
100 100 100	10 10	1 1 1 1 1 1
100 100 100	10 10	1 1 1 1 1 1
100 100 100	10 10	1 1 1 1 1 1
100 100 100	10 10	1 1 1 1 1 1

2) Represent this word problem using place value counters. Calculate the answer using the formal written method of short multiplication.

The Twinkl multi-storey car park has 8 levels. On each level there are 368 car parking spaces. What is the maximum number of cars that can park in the Twinkl multi-storey car park?

Hundreds	Tens	Ones

3) Use the formal written method of short multiplication to find the answer to each calculation.

- a) 458×6 b) 981×3
 c) 2×808 d) 5×670

1) Complete the calculation to match each image.



a) 233×3

Hundreds	Tens	Ones
100 100	10 10 10	1 1 1
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b)

Hundreds	Tens	Ones
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100	10 10	1 1 1 1 1
100	10 10	1 1 1 1 1
100	10 10	1 1 1 1 1

c)

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100 100	10 10 10 10 10	1 1 1 1 1 1 1
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100 100 100	10 10	1 1 1 1 1 1
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- 1) Read the statement below. Is it true or false? Prove it and explain your reasoning.



If I am multiplying a 3-digit number by a 1-digit number, the maximum number of times I will need to regroup is 4.

- 2) Calculate the answers to these short multiplications.

Which is the odd one out? Explain your reasoning.

- a) 276×9
- b) 621×4
- c) 414×6
- d) 342×7

- 3) Which of these calculations is nearest to 5000? Prove it and explain how you know.

$453 \times 9 =$

$499 \times 8 =$

$851 \times 6 =$

- 1) Read the statement below. Is it true or false? Prove it and explain your reasoning.



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- 1) The answer to a 3-digit number multiplied by a 1-digit number is 2608. What could the possible calculations be?



- 2) The children were each given a different multiplication to complete but forgot to write their names on their work. Calculate the answer to each multiplication. Then, read the clues carefully to identify which calculation each child completed.

Child	Clue	Calculation
Moirag	The answer to my calculation is an even number.	
Polly	The answer to my calculation is greater than 5000.	
Rocky	The sum of the digits for the answer to my calculation is 16.	
Olga	My calculation required no regrouping.	
Taj	The answer to my calculation has a place holder.	

- A 213×3 B 989×7 C 594×8
- D 938×8 E 375×6

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