1) Complete the calculation to match each image.

a)

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

		H	T	O	
		2	3	3	
	×			3	

b)

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

		H	T	O	
	×				

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

		H	T	O	
	×				

d)

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

		H	T	O	
	×				

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 Twinkl multi-storey car park?

Hundreds	Tens	Ones

		H	T	O	
×					

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

a) 458 × 6 = ____

		H	T	O	
×					

b) 981 × 3 = ____

		H	T	O	
×					

c) 2 × 808 = ____

		H	T	O	
×					

d) 5 × 670 = ____

		H	T	O	
×					

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
×				9

b)

		6	2	1
×				4

c)

		4	1	4
×				6

d)

		3	4	2
×				7

_____

_____

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

453 × 9 = ☐

499 × 8 = ☐

851 × 6 = ☐

_____

_____

_____

_____

_____

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

		2	1	3
	×			3

B

		9	8	9
	×			7

C

		5	9	4
	×			8

D

		9	3	8
	×			8

E

		3	7	5
	×			6