

Bronze

1a. True or false? The answer is 9,636.



	3	3	1	2
X				3
<hr/>				



VF

1b. Deb solved the calculation below and thinks the answer is 6,693.

	2	2	3	2
X				3
<hr/>				



Identify her mistake.



PS

2a. Complete the calculation $1,111 \times 4$.



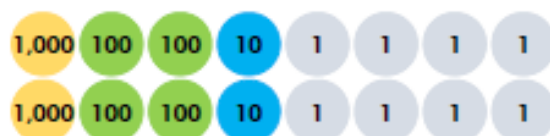
	1	1	1	1
X				4
<hr/>				



VF

2b. Work out the missing numbers. Use the place value counters to help you.

	<input type="text"/>	2	1	<input type="text"/>
X				2
<hr/>				
	2	<input type="text"/>	2	8



PS

3a. There are 2,213 straws in a box.



X				
<hr/>				

How many will there be in 3 boxes?
Draw a representation of the calculation to support your working out.

3b. A family holiday costs £2,431. Mrs Juarez says the total cost for 2 families is £2,861.



X				
<hr/>				

Is she correct? Prove it by completing the representation and the calculation.

4a. True or false? The answer is 12,222.



	6	1	1	1
X				2
<hr/>				
<hr/>				



VF

4b. Chara solved the calculation below and thinks the answer is 3,254.

$$8,126 \times 4$$

Th	H	T	O

Complete the calculation using a formal method to identify her mistake.



PS

5a. Solve: $3,572 \times 3$. Use a formal method to show your working out.

Th	H	T	O



VF

5b. Work out the missing numbers. Use the place value chart to help you.

Th	H	T	O

	7	0	8	<input type="text"/>
X				2
<hr/>				
<input type="text"/>	4	<input type="text"/>	6	8
<hr/>				
		1		



PS

6a. There are 6,405 straws in a box.

Th	H	T	O

How many will there be in 4 boxes?
Complete the chart and use a formal method.

6b. A new driveway costs £4,862. Mr North is asked to pave 3 driveways. He says the total cost is £14,486.

Th	H	T	O

Is he correct? Complete the chart and use a formal method to prove it.

Gold

7a. True or false? $3,472 \times 4 = 13,688$.

Th	H	T	O

Complete the place value chart and use a formal method to help you.



VF

8a. Complete the calculation $5,128 \times 5$.

Th	H	T	O

Extend the place value chart to help you calculate the answer.



VF

9a. There are 7,052 straws in a box.

Th	H	T	O

How many will there be in 4 boxes?
Extend and complete the place value chart to help you.

7b. Sanjay solved the calculation below and thinks the answer is 72,134.

$$8,126 \times 9$$

Th	H	T	O

Complete the calculation using a formal method to identify his mistake.



PS

8b. Work out the missing numbers. Use the place value chart to help you.

Th	H	T	O

	<input type="text"/>	7	8	<input type="text"/>
X				7
1	9	4	<input type="text"/>	0
	5	5		



PS

9b. A TV package costs £1,991. Mrs Sajjad says the total cost of 6 packages will be £11,446.

Th	H	T	O

Is she correct? Prove it.

Challenge

1. Ivan the bank manager has forgotten the code to enter the underground vault at his bank. He remembers that the code was the result of multiplying a 4-digit number by 3.

The 4-digit number Ivan multiplied was made from the digits 0-9 where each digit was only used once. The code was a 4-digit number, and one of the digits was repeated twice within the code.



x				3
<hr/>				
<hr/>				

Explore what the 4-digit code could be.

2. Louisa, Alfie and Rehan are playing a game. They are multiplying their 4-digit numbers by 6 to see whose answer is closest to 10,000. They each give clues for their 4-digit numbers.



Louisa

The digit sum of my number is 10. My number has a 0 in the ones column and each digit is different.

All of the digits in my number are even, and one digit is 0. My digit sum is less than Louisa's.



Alfie



Rehan

My number has the highest digit sum. Two of my digits are 0s.

Investigate what each of their numbers could be and who could have won the game.