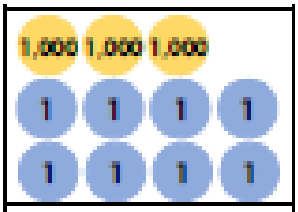
Add Two 4-Digit Numbers 2

1a. Match the calculation to the correct answer.

	2	0	3	5
+	1	0	7	3

A



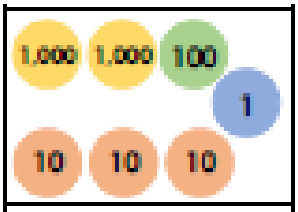
B Three thousand and eighteen

C 3,108

1b. Match the calculation to the correct answer.

	5	6	2	4
+	3	7	5	3

A



B 9,377

C Nine thousand and seventy-seven

2a. What number is missing from the calculation?

	5	4	3	☐
+	1	5	5	1
	6	9	9	0
			1	

2b. What number is missing from the calculation?

	3	7	3	8
+	1	☐	5	0
	5	6	8	8
		1		

3a. Complete the calculation.

	4	2	3	6
+	3	6	2	7

3b. Complete the calculation.

	5	8	6	2
+	2	8	2	1

4a. Complete the calculation so that the missing digit leads to an exchange.

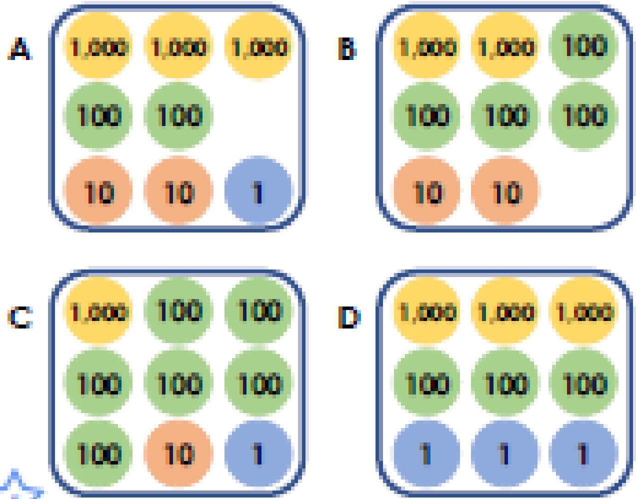
	Th	H	T	O
+				
			☐	

4b. Complete the calculation so that the missing digit leads to an exchange.

	Th	H	T	O
+				
			☐	

Add Two 4-Digit Numbers 2

1a. Which two numbers add together to make the answer 4,031?



2a. Frankie is adding two 4-digit numbers together.

	4	□	3	4
+	3	□	8	1
		5		

What digits could be in the hundreds column so that no exchange takes place?

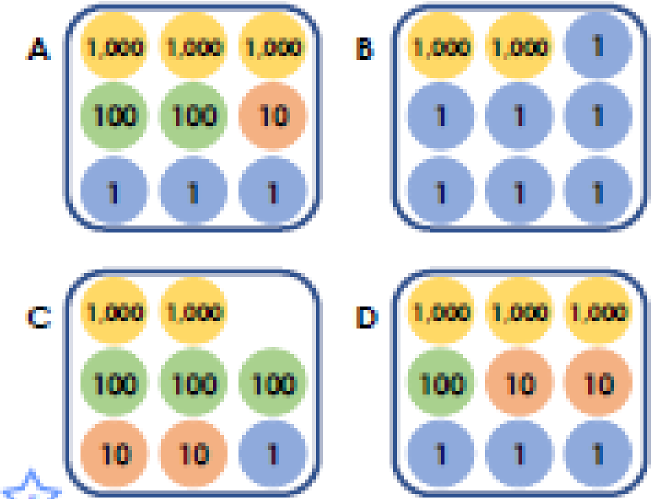
3a. Terri thinks that an exchange takes place from the tens column in the calculation below.

	8	3	2	1
+	1	3	5	9

Is she correct?
Prove it.

Add Two 4-Digit Numbers 2

1b. Which two numbers add together to make the answer 5,220?



2b. Ashante is adding two 4-digit numbers together.

	3	4	□	7
+	2	3	□	1
			4	

What digits could be in the tens column so that an exchange takes place?

3b. Delilah thinks that an exchange takes place from the hundreds column in the calculation below.

	5	3	1	1
+	3	8	1	2

Is she correct?
Prove it.

Answers – Expected
Add Two 4-Digit Numbers 2

Varied Fluency

1a. C: 3,108

2a. 9

3a. 7,863

4a. Inserting numbers from 7 to 9 will lead to an exchange. If 7 is used, the answer is 7,908.

Reasoning and Problem Solving

1a. 2,420 + 1,611 = 4,031 (C and B)

2a. Pupils must recognise there will be 1 from the previous exchange, so the numbers could be 4 and 0; 3 and 1; 2 and 2.

3a. She is incorrect. The exchange takes place from the ones to the tens (9 + 1 = 10).

Answers – Expected
Add Two 4-Digit Numbers 2

Varied Fluency

1b. B: 9,377

2b. 9

3b. 8,683

4b. Inserting numbers from 6 to 9 will lead to an exchange. If 6 is used, the answer is 9,069.

Reasoning and Problem Solving

1b. 2,007 + 3213 = 5,220 (A and B)

2b. Pupils must recognise they will need to make 14 in order for there to be an exchange, so the answers could be 9 and 5; 8 and 6; 7 and 7.

3b. She is correct. An exchange will take place because 300 + 800 = 1,100.