Add two 4-digit numbers – one exchange

1 Complete the calculations.

Use the place value charts to help you.

a) 3,117 + 2,542 = ☐

	Th	H	T	O
	1,000 1,000 1,000	100	10	1 1 1 1 1 1 1
+	1,000 1,000	100 100 100 100	10 10 10 10	1 1

b) 3,117 + 2,544 = ☐

	Th	H	T	O
	1,000 1,000 1,000	100	10	1 1 1 1 1 1 1
+	1,000 1,000	100 100 100 100 100	10 10 10 10	1 1 1 1

c) What do you notice about the calculations in part a) and part b)?

Which did you find easier and why?

d) What happens when you have more than ten counters in one column?

2 Complete the calculations.

a) 4,365 + 2,617 = ☐

b) 1,907 + 5,068 = ☐

c) 6,792 + 163 = ☐

d) 3,247 + 1,930 = ☐

3 Complete the calculations.

a)

		Th	H	T	O		
		5	1	6	3		
	+	2	4	5	1		

b)

		Th	H	T	O		
		7	2	6	1		
	+	1	0	2	9		

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c)

		Th	H	T	O		
			7	0	3		
	+	2	5	8	0		

d)

		Th	H	T	O		
		3	5	0	8		
	+	2	7	3	1		

4 Four children are working out 4,635 + 183

Rosie's method

		Th	H	T	O		
		4	6	3	5		
	+		1	8	3		
		4	7	11	8		

4,635 + 183 = 47,118

Jack's method

		Th	H	T	O		
		4	6	3	5		
	+		1	8	3		
		4	7	1	8		

4,635 + 183 = 4,718

Alex's method

		Th	H	T	O		
		4	6	3	5		
	+		1	8	3		
		4	8	1	8		
			1				

4,635 + 183 = 4,818

Teddy's method

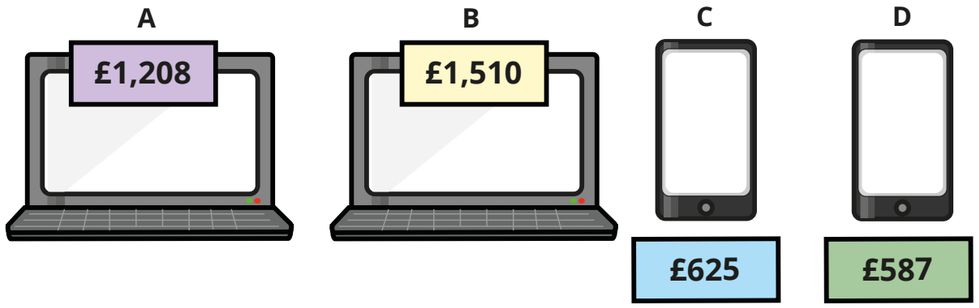
		Th	H	T	O		
		4	6	3	5		
	+	1	8	3			
		6	4	6	5		
		1					

4,635 + 183 = 6,465

Whose method is correct? _____

Talk about the mistakes the other children have made.

5 Here are the prices of some laptops and mobile phones.



Mr Robson has £2,100 to spend on a mobile phone and a laptop.

What combinations of laptops and phones can he afford to buy?

_____

_____

_____

6 Fill in the missing digits.

a)

		Th	H	T	O		
		3		2			
	+		4		6		
		8	7	9	1		

b)

		Th	H	T	O		
	+	3	8	2	1		
		8	7	9	1		

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