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	100 100 100 100 100	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 10 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	

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 have calculated 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

A £1,208

B £1,510

C £625

D £587

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	