

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
<div>1,000</div> <div>1,000</div> <div>1,000</div>	<div>100</div>	<div>10</div>	<div>1</div> <div>1</div> <div>1</div> <div>1</div> <div>1</div>
<div>1,000</div> <div>1,000</div>	<div>100</div> <div>100</div> <div>100</div> <div>100</div> <div>100</div>	<div>10</div> <div>10</div> <div>10</div> <div>10</div>	<div>1</div> <div>1</div>

b) $3,117 + 2,544 =$

Th	H	T	O
<div>1,000</div> <div>1,000</div> <div>1,000</div>	<div>100</div>	<div>10</div>	<div>1</div> <div>1</div> <div>1</div> <div>1</div> <div>1</div>
<div>1,000</div> <div>1,000</div>	<div>100</div> <div>100</div> <div>100</div> <div>100</div> <div>100</div>	<div>10</div> <div>10</div> <div>10</div> <div>10</div>	<div>1</div> <div>1</div>

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

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

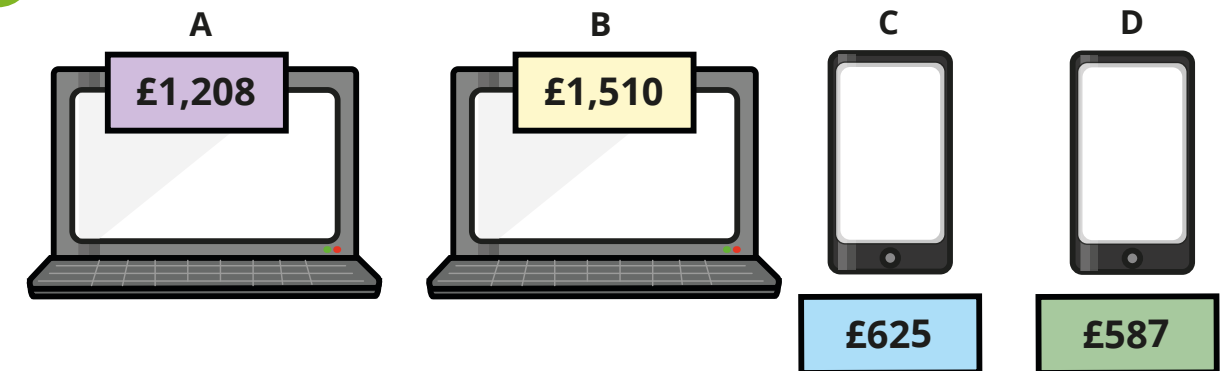
		Th	H	T	O		
		4	6	3	5		
	+	1	8	3			
		6	4	6	5		
		1					

$4,635 + 183 = 6,465$

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		

