1) Complete these subtraction calculations. You may want to use place value counters to help you.

a)

	5	1	3	4
-	1	5	3	2

b)

	9	0	5	4
-	5	6	7	1

c)

	3	4	0	2	3
-		8	7	1	8

d) 52 064 - 25 934

e) 86 807 - 32 653

2) Here are the flight times, in seconds, for each flying team.

Sea Beast	Number One	High Fliers	The Conjurers	Fantastic French
82 507	80 198	75 259	72 043	78 360

a) Which teams have a time difference of 3101?

b) Which two teams have the greatest time difference? How about the smallest time difference? Prove it!

1) Rana has been practising the column method but she has made some mistakes. Can you identify all the mistakes and explain what she has done wrong?

Complete the calculation yourself to show the correct workings.

a)

	3	$\cancel{2}$ 1	^{1}5	6	1
-			1	6	3	5
	3	0	9	3	4

b)

	8	4	2	8	4
-	5	2	6	5	3
	3	2	6	3	1

2) Is this statement always, sometimes or never true? Explain your thinking.

'If you find the difference between two consecutive numbers, the answer will be an even number.'

1) Can you identify the missing digits in these two calculations?

	☐	2	☐	6	4
-	2	☐	5	4	3
	4	2	5	☐	1

	9	☐	☐	0	8
-	2	4	1	☐	☐
	☐	8	1	3	0

2) I have 3 whole numbers: A, B and C.

Each has 5 digits.

The difference between A and B is 12 345 and the difference between B and C is 54 321.

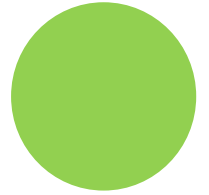What could my numbers be? Find 3 possibilities and show your workings.

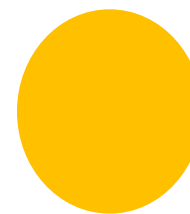| A = _____	A = _____	A = _____
B = _____	B = _____	B = _____
C = _____	C = _____	C = _____

ANSWERS

1) a) 3602

   b) 3383

   c) 25 305

   d) 26 130

   e) 54 154

2) a) High Fliers and Fantastic French

   b) Sea Beast and The Conjurers (10 464). Number One and Fantastic French (1838). Look for children who explain their reasoning about number selection, e.g. taking the largest and smallest numbers to find the greatest difference and the two closest numbers for the smallest difference, rather than trying every combination of numbers to find the correct answer.

1) a)

	3	̶3̶ 1	¹5	6	1
-		1	6	3	5
	3	0	9	3	(4)

Rana has done 5 - 1 rather than doing 1 - 5 and exchanging.

The correct answer is 30 926.

b)

	8	(4	2)	8	4
-	5	2	6	5	3
	3	2	6	3	1

Rana has not recorded the exchange of taking 1 thousand from 4 thousands to create 10 hundreds, which would leave 3 thousands.
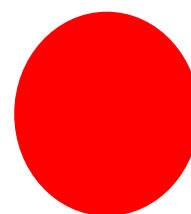
The correct answer is 31 631.

2) Never. In a pair of consecutive numbers, one number will be odd and the other even.

odd − even = odd

even − odd = odd

1)

	7	2	0	6	4
-	2	9	5	4	3
	4	2	5	2	1

	9	2	3	0	8
-	2	4	1	7	8
	6	8	1	3	0

2) One example combination of possible answers:

A = 65 123	A = 56 032	A = 87 325
B = 77 468	B = 68 377	B = 74 980
C = 23 147	C = 14 056	C = 20 659