Inverse operations (addition and subtraction)

1 Ron wants to check this addition calculation.

$$320 + 719 = 1{,}039$$

Circle the subtractions that can be used to check Ron's addition.

(1,039 − 719)   320 − 1,039

719 − 320   (1,039 − 320)

2 Dora wants to check this subtraction calculation.

$$4{,}096 − 2{,}356 = 1{,}740$$

Circle the addition that can be used to check Dora's subtraction.

4,096 + 2,356   4,096 + 1,740

(1,740 + 2,356)   1,740 + 4,096

3 Use an inverse operation to check these calculations.

a)

	1	3	6	0
+	2	9	7	3
	4	3	3	3

	³4	¹2³	³	3
−	1	3	6	0
	2	9	7	3	✓

b)

	8	2	6	4
−	3	1	4	2
	5	1	2	2

	5	1	2	2
+	3	1	4	2
	8	2	6	4	✓

4 Tommy works out 12,350 + 7,903 incorrectly.

	1	2	3	5	0
+		7	9	0	3
	9	1	3	8	0

Tommy checks his calculation using the same addition.

Is this a good idea? Talk about it with a partner.

What calculation should he do? Correct Tommy's answer.

Tommy should do 91,380 − 12,350 and realise he is wrong.

	1	2	3	5	0
		7	9	0	3
	2	0	2	5	3

20,253

5 Match the inverse calculations.

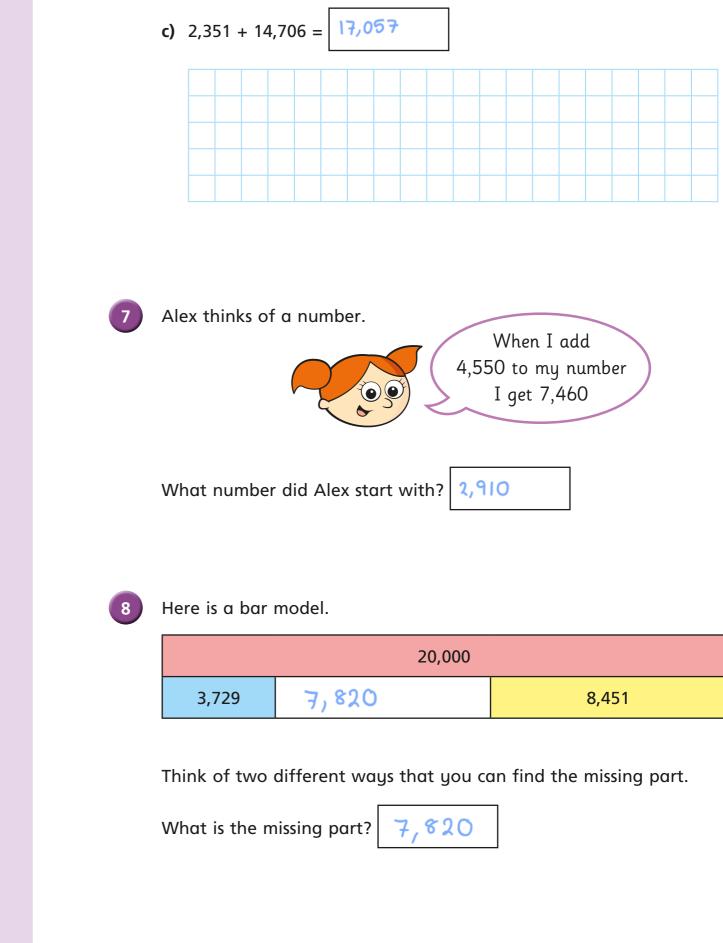| 2,482 + 6,428 = 8,912 | | 5,271 + 4,212 = 9,483 |
5,984 − 3,172 = 2,812		8,912 − 6,428 = 2,482
9,483 − 5,271 = 4,212		8,912 − 5,271 = 3,641
8,912 = 3,641 + 5,271		5,984 = 3,172 + 2,812

6 Complete the calculations.

Use inverse operations to check your answers.

a) 763 + 4,072 = 4,835

b) 8,711 − 1,053 = 7,658

c) 2,351 + 14,706 = 17,057

7 Alex thinks of a number.

When I add 4,550 to my number I get 7,460

What number did Alex start with? 2,910

8 Here is a bar model.

20,000		
3,729	7,820	8,451

Think of two different ways that you can find the missing part.

What is the missing part? 7,820