Checking strategies

1 Circle the subtractions that can be used to check the addition 271 + 516 = 787

(787 − 271)   516 − 271   271 − 787   (787 − 516)

2 Circle the additions that can be used to check the subtraction 2,364 − 1,202 = 1,162

2,364 + 1,202   (1,162 + 1,202)   2,364 + 1,162   (1,202 + 1,162)

3 Use an inverse operation to check these calculations.

a)

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

$$\begin{array}{r} {}^{7}\!8\,{}^{1}3\,6 \\ -\ 3\,7\,1 \\ \hline 4\,6\,5 \end{array}$$

b)

H	T	O
5	6	7
− 1	5	2
4	1	5

$$\begin{array}{r} 4\,1\,5 \\ +\ 1\,5\,2 \\ \hline 5\,6\,7 \end{array}$$

c)

Th	H	T	O
	2	4	1	1
−	1	3	0	6
	1	1	0	5

$$\begin{array}{r} 1\,1\,0\,5 \\ +\ 1\,3\,0\,6 \\ \hline 2\,4\,1\,1 \end{array}$$

4 Complete the fact family for the bar model.
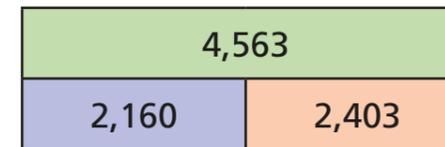
4,563	
2,160	2,403

2,160 + 2,403 = 4,563

2,403 + 2,160 = 4,563

4,563 − 2,403 = 2,160

4,563 − 2,160 = 2,403

5 Teddy is working out 5,671 + 325

Th	H	T	O
	5	6	7	1
+		3	2	5
	8	9	2	1

$$\begin{array}{r} 5\,6\,7\,1 \\ +\ \ \ 3\,2\,5 \\ \hline 5\,9\,9\,6 \end{array}$$

Teddy checks his calculation using the same addition.

Is this a good idea? What mistake has Teddy made?

What addition should he do? Check Teddy's calculation.

6 Match the inverse calculations.

| 623 + 1,240 = 1,863 |
| 2,483 − 623 = 1,860 |

| 1,860 + 1,240 = 3,100 |
| 2,483 + 617 = 3,100 |

| 1,860 + 623 = 2,483 |
| 3,100 − 1,860 = 1,240 |

| 3,100 − 2,483 = 617 |
| 617 + 1,866 = 2,483 |

| 2,483 − 617 = 1,866 |
| 1,863 − 1,240 = 623 |

7 Complete the calculations.

Use inverse operations to check your answers.

a) 372 + 405 = $\boxed{777}$

b) 1,372 + 450 = $\boxed{1,822}$

c) 6,572 − 2,320 = $\boxed{4,252}$

d) 6,004 − 729 = $\boxed{5,275}$