# Subtract two 4-digit numbers – one exchange

**1**

| Th | H | T | O |
|---|---|---|---|
| 1,000  1,000  1,000  1,000  1,000 | 100  100  100  100 | 10  10  10 | 1  1  1  1  1 |

**a)** Use the place value chart to complete the calculation.

5,435 − 3,215 = $\boxed{2,220}$

**b)** Use the place value chart to complete the calculation.

5,435 − 3,216 = $\boxed{2,219}$

**c)** Which calculation was easier? Talk about it with a partner.

**d)** What happens when you don't have enough counters in a column to take away?

You need to make an exchange

**2** Complete the sentences.

1 ten can be exchanged for $\boxed{10}$ ones.

1 hundred can be exchanged for 10 __tens__ .

1 thousand can be exchanged for $\boxed{10}$ __hundreds__ .

**3** Use a place value chart to complete the calculations.

**a)**

| H | T | O |
|---|---|---|
| 3 | $^{1}2\!\!\!/$ | $^{1}7$ |
| − 1 | 1 | 9 |
| 2 | 0 | 8 |

**b)**

| Th | H | T | O |
|---|---|---|---|
| 7 | 6 | $^{6}7\!\!\!/$ | $^{1}3$ |
| − | | 1 | 3 | 4 |
| 7 | 5 | 3 | 9 |

**c)**

| Th | H | T | O |
|---|---|---|---|
| 9 | 8 | $^{3}4\!\!\!/$ | $^{1}5$ |
| − 6 | 2 | 1 | 6 |
| 3 | 6 | 2 | 9 |

**4** Use a place value chart to complete the calculations.

**a)**

| H | T | O |
|---|---|---|
| $^{2}3\!\!\!/$ | $^{1}2$ | 7 |
| − 1 | 3 | 2 |
| 1 | 9 | 5 |

**b)**

| Th | H | T | O |
|---|---|---|---|
| 7 | $^{5}6\!\!\!/$ | $^{1}7$ | 3 |
| − | | 2 | 8 | 1 |
| 7 | 3 | 9 | 2 |

**c)**

| Th | H | T | O |
|---|---|---|---|
| 9 | $^{7}8\!\!\!/$ | $^{1}4$ | 5 |
| − 2 | 3 | 6 | 0 |
| 7 | 4 | 8 | 5 |

**5** Use a place value chart to complete the calculations.

a)

| | | Th | H | T | O | |
|---|---|---|---|---|---|---|
| | | ²3̶ | ¹2 | 7 | 0 | |
| | − | 1 | 3 | 2 | 0 | |
| | | 1 | 9 | 5 | 0 | |
| | | | | | | |

c)

| | | Th | H | T | O | |
|---|---|---|---|---|---|---|
| | | ⁸9̶ | ¹8 | 4 | 5 | |
| | − | 1 | 9 | 2 | 1 | |
| | | 7 | 9 | 2 | 4 | |
| | | | | | | |

b)

| | | Th | H | T | O | |
|---|---|---|---|---|---|---|
| | | ⁶7̶ | ¹6 | 7 | 3 | |
| | − | | 7 | 2 | 1 | |
| | | 6 | 9 | 5 | 2 | |
| | | | | | | |

**6** Annie is calculating 3,467 − 2,148

Here is her working.

| | Th | H | T | O | |
|---|---|---|---|---|---|
| | 3 | 4 | 6 | 7 | |
| − | 2 | 1 | 4 | 8 | |
| | 1 | 3 | 2 | 1 | |
| | | | | | |

Do you agree with Annie? __No__

Explain your answer.

She has found the difference between the numbers in each column rather than making an exchange.
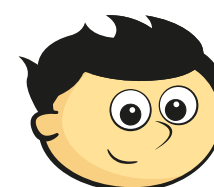
**7** A car costs £8,716

A motorbike costs £2,341 less than the car.

How much does the motorbike cost?

£6,375

**8** Jack is thinking of two 4-digit numbers.

The greater number is 6,410.
The difference between the two numbers is 3,107

What is the sum of the two numbers?

6,410

3,107

?

9,713