

Add two 3-digit numbers – not crossing 10 or 100

1 Complete the column addition.

Use base 10 to help you.

Hundreds	Tens	Ones

		H	T	O	
		4	5	3	
	+	1	2	5	



2 Kim uses counters and a place value chart to help her work out $362 + 205$

Hundreds	Tens	Ones

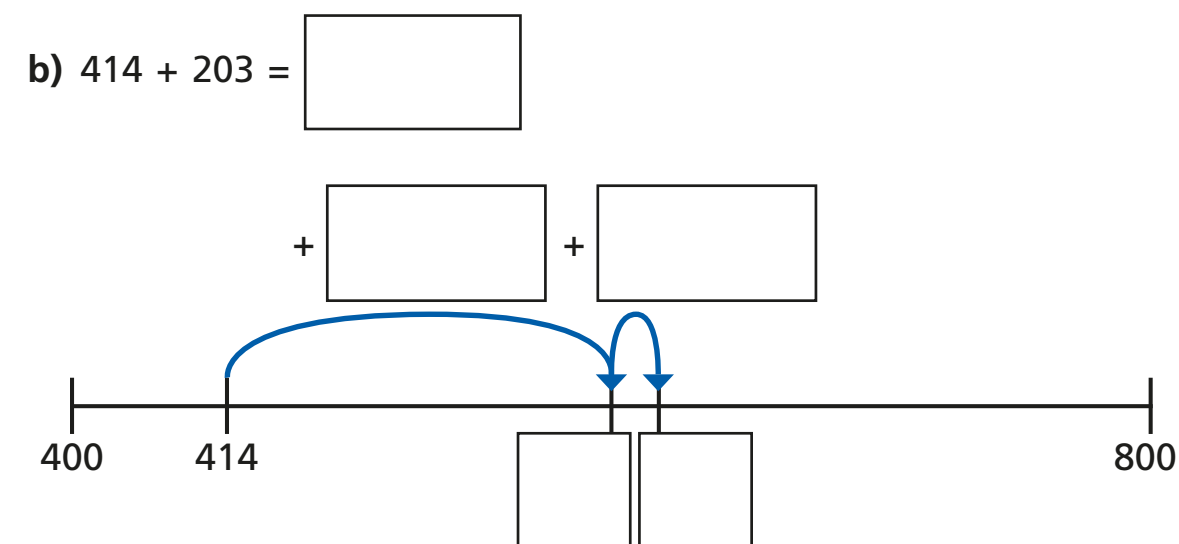
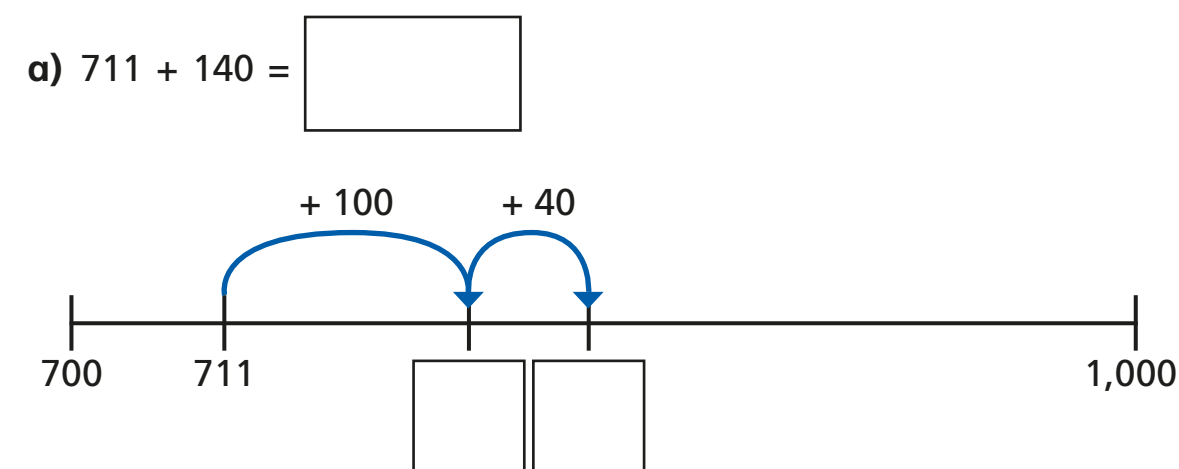
		H	T	O	
		3	6	2	
	+	2	0	5	

- Draw counters to complete the chart.
- Complete the column addition.
- Which column did you add first? Talk to a partner about your method.



3 Mrs Morgan drives 230 km on Monday.
On Tuesday she drives 169 km.
How far does she drive in total on Monday and Tuesday?

4 Complete the number line to work out the addition.



c) $502 + 384 =$



5 Complete the additions.

a) $736 + 203 =$

c) $£391 + £505 =$

b) $184 + 105 =$

6 The table shows the number of boys and girls in two schools.

	Boys	Girls
School A	224	305
School B	400	

a) The total number of children in each school is equal.

Without working it out, which school has more girls?

How do you know?

b) How many girls are there in school B?

7 Three children each work out an addition problem.

- Each child uses the same six digits.
- Each addition gives the same answer of 888
- Each child adds two different numbers together.

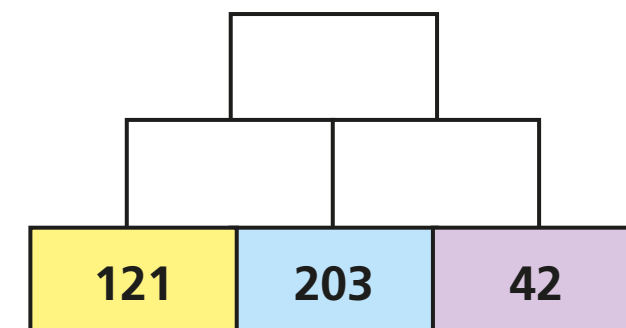
Work out a possible set of addition problems.

		H	T	O				H	T	O				H	T	O	
	+						+						+				
		8	8	8				8	8	8				8	8	8	

8 Here is an addition pyramid.

Add the two numbers below to make the number above.

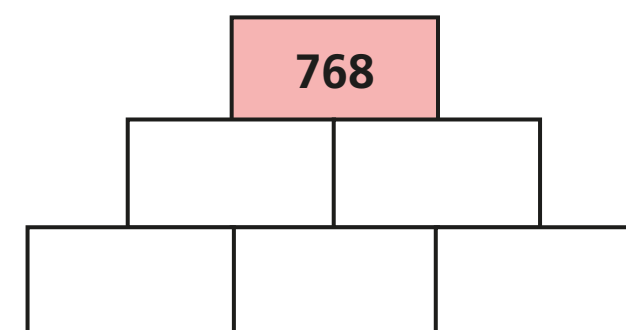
a) Complete the addition pyramid.



b) Complete the addition pyramid.

None of the additions should have an exchange.

The total is 768

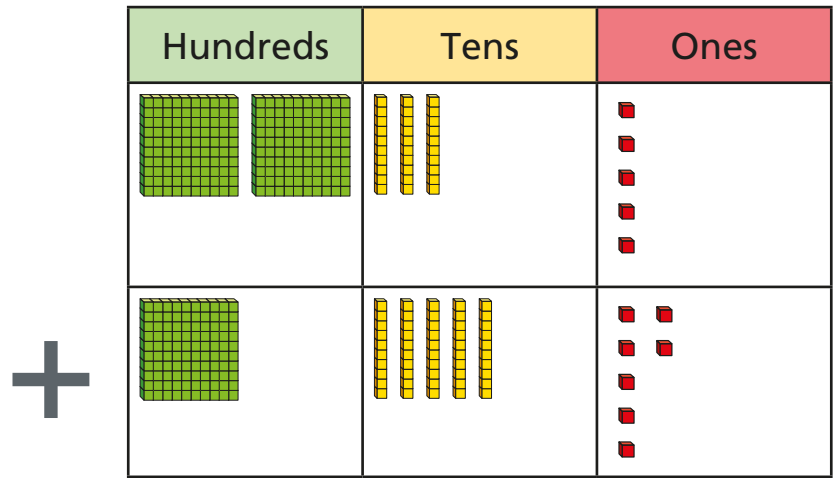


Compare answers with a partner.

Add two 3-digit numbers – crossing 10 or 100

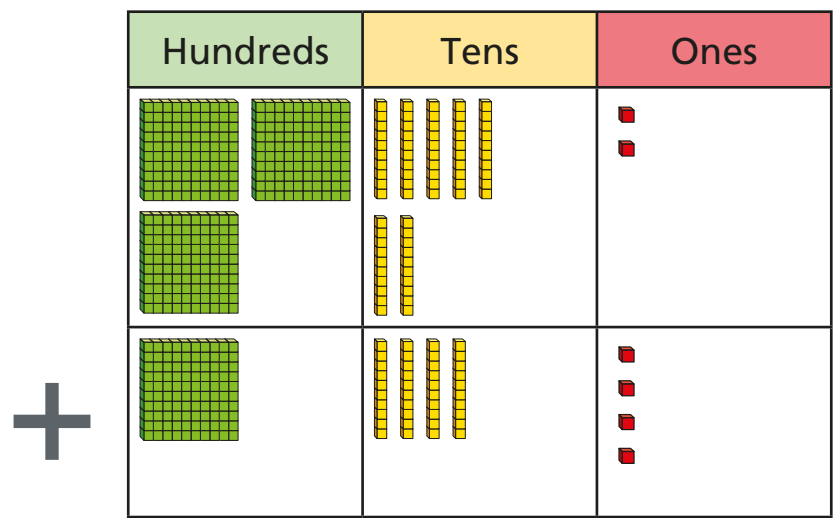
1 Complete the column addition.

a) $235 + 157$



	H	T	O
	2	3	5
+	1	5	7

b) $372 + 144$



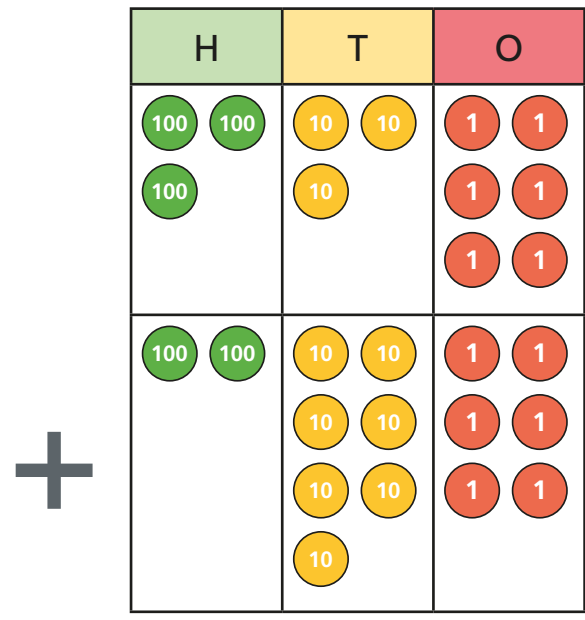
	H	T	O
	3	7	2
+	1	4	4

2 Tick the additions that need an exchange of ones for a ten.

		H	T	O			H	T	O			H	T	O	
		2	3	8			4	2	7			3	0	8	
	+	1	4	1		+	2	6	8		+	1	5	1	

How do you know if an addition needs to exchange 10 ones for a ten?

3 Dani uses counters to represent an addition.



a) What addition is Dani trying to work out?

b) Work out the answer to the addition.

c) How many exchanges did you have to do?

4 Work out the additions.

a)

		H	T	O	
		1	8	7	
	+	4	7	1	

b)

		H	T	O		
		5	1	7	m	
	+	2	3	4	m	

c) $718 + 108$

d) $526 + 294$

5 a) Tick the additions with an answer that ends in zero.

$317 + 203$ ☐	$192 + 784$ ☐	$390 + 177$ ☐
$455 + 165$ ☐	$386 + 184$ ☐	$319 + 501$ ☐

b) Did you have to work out all of the additions?

c) Complete the sentences.

The answer to $175 + 212$ ends with a

The answer to $609 + 175$ ends with a

The answer to $334 + 178$ ends with a

The answer to $716 +$ ends with a 3

6 Fill in the missing digits.

a)

		H	T	O	
		3		2	
	+	4	5		
			3	7	

b)

		H	T	O	
		1	0	9	
	+		2		
		5		5	

c)

		H	T	O	
		2	7	8	
	+	2	5		
				0	

d)

		Th	H	T	O	
			5	7	3	
	+					
		1	0	0	0	

7 Dexter bakes 148 biscuits on Monday.

On Tuesday he bakes 273 more biscuits than he did on Monday.

a) How many biscuits does Dexter bake on Tuesday?

b) How many biscuits does he bake in total on Monday and Tuesday?

8 Write two addition calculations that have:

- 1 exchange
- 2 exchanges.

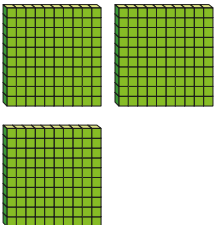
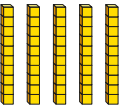
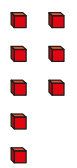
Compare answers with a partner.



Subtract 3-digit numbers from 3-digit numbers – no exchange

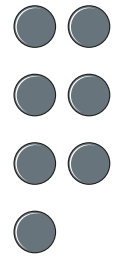
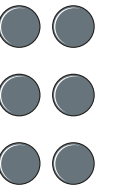
1 Complete the column subtractions.

a) $358 - 226$

Hundreds	Tens	Ones
		

	H	T	O
	3	5	8
-	2	2	6

b) $726 - 303$

H	T	O
		

	H	T	O
	7	2	6
-	3	0	3

2 Complete the subtractions.

a)

	H	T	O
	6	7	2
-	4	7	1

b)

	H	T	O
	5	6	3
-	1	5	1

3 Ron is working out $785 - 257$

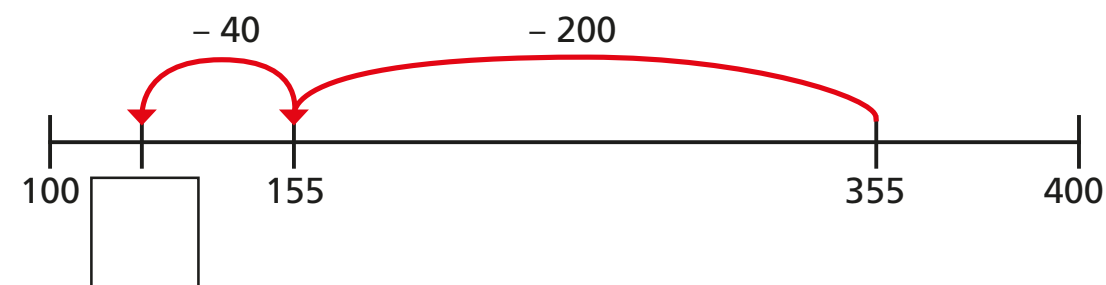
		H	T	O	
		2	5	7	
	-	7	8	5	

Do you agree with the way Ron has set out the subtraction?

Why?

4 Use the number line to work out the subtraction.

a) $355 - 240 =$



b) $835 - 501 =$



- 5 A TV costs £120 less than this computer.
How much does the TV cost?



- 6 There are 849 people at a concert.
There are 625 adults at the concert.

a) How many children are at the concert?

b) How many more adults than children are at the concert?

- 7 What are the values of each of the shapes?

a)

	6	★	8
—	★	▲	▲
	●	1	5

★ = ▲ =
● =

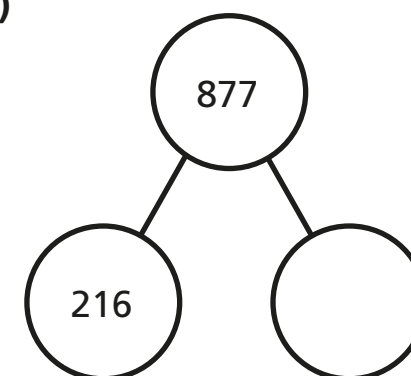
b)

	9	+	◆
—	+	4	⬠
	◆	⬠	◆

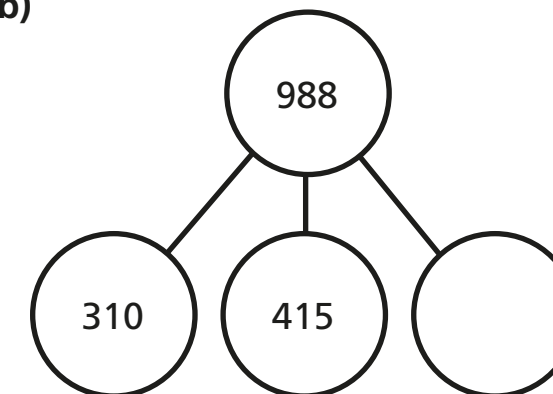
+ = ⬠ =
◆ =

- 8 Complete the part-whole models.

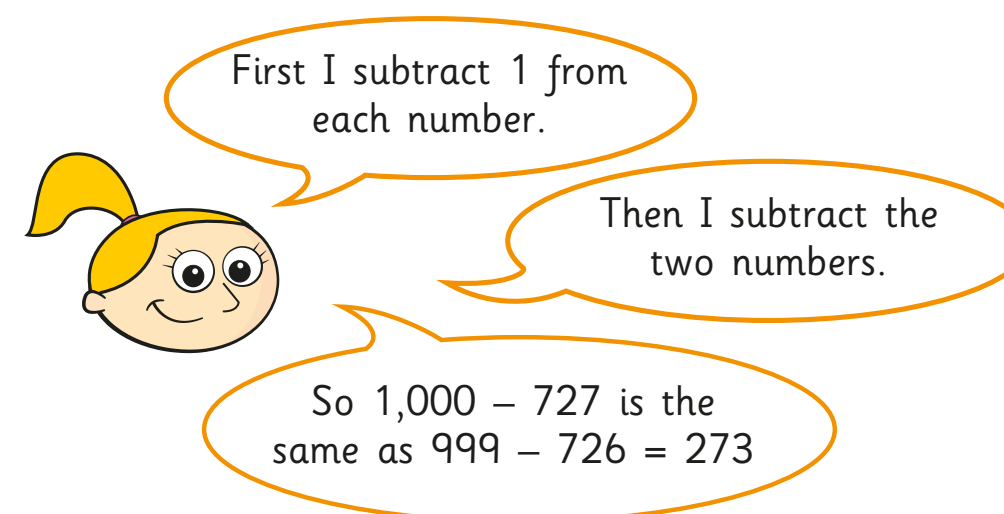
a)



b)



- 9 Eva is subtracting 727 from 1,000



Why does Eva's method work?

Talk about it with a partner.

Use Eva's method to complete the subtractions.

$1,000 - 285 =$

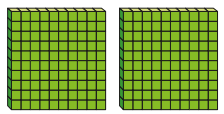
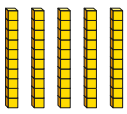
$800 - 636 =$



Subtract a 3-digit number from a 3-digit number – exchange

1 Complete the column subtractions.

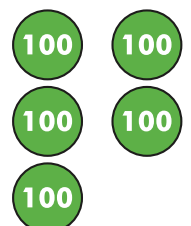
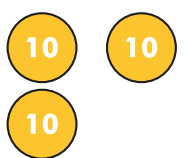
a) $254 - 126$

Hundreds	Tens	Ones
		

	H	T	O
	2	5	4
–	1	2	6

What exchange did you have to make?

b) $532 - 281$

Hundreds	Tens	Ones
		

	H	T	O
	5	3	2
–	2	8	1

What exchange did you have to make?

2 Which of these calculations need an exchange?

Tick your answers.

	H	T	O
	6	5	8
–	1	4	4

	H	T	O
	3	2	3
–	1	1	7

	H	T	O
	4	2	9
–	1	7	2

How do you know?

3 Work out the subtractions.

a) $735 - 218$

	H	T	O
	7	3	5
–	2	1	8

c) $415 - 179$

	H	T	O
	4	1	5
–	1	7	9

b) $428 - 163$

	H	T	O
	4	2	8
–	1	6	3

d) $382 - 194$

	H	T	O
	3	8	2
–	1	9	4

4 Talk about the mistake that has been made.

$$\begin{array}{r} 546 \\ - 283 \\ \hline 343 \end{array}$$

5 Complete the subtractions.

a)

		H	T	O
		7	0	0
	-	5	4	6

b)

		H	T	O
		8	0	5
	-	1	7	9

6 Work out the missing digits in these subtractions.

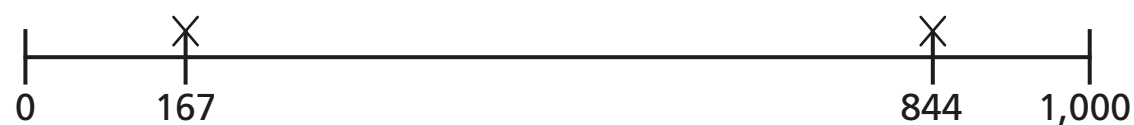
a)

		H	T	O
		7		5
	-	3	4	
			7	3

b)

		H	T	O
			2	0
	-	1		8
		2	9	

7 Two points are marked on a number line.



What is the difference between the two points?

8 Fill in the missing numbers.

a) $179 + \square = 595$

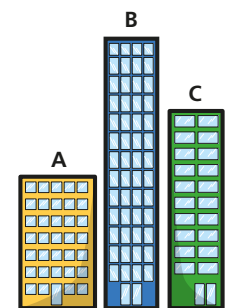
c) $95 + \square + 138 = 870$

b) $718 - \square = 348$

d) $\square - 446 = 503$

9 Here are 3 buildings.

- A is 150 m tall
- B is 317 m taller than A
- C is 223 m shorter than B



How much taller is C than A?

10 Aisha buys these items.



How much change does she have from £1,000?



1 Dora makes a number on a place value chart.

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

a) What number has Dora made?

b) Add 3 ones to Dora's number.

What number do you have?

c) Add 2 tens to Dora's number.

What number do you have now?

d) Subtract 2 hundreds from Dora's number.

What number do you have now?

e) Add 5 thousands to Dora's number.

What number do you have now?

2

Complete the calculations.

Use the place value chart to help you.

1,000s	100s	10s	1s
5	3	7	8

a) $5,378 + 200 =$

e) $5,378 - 60 =$

b) $5,378 + 20 =$

f) $5,378 - 3,000 =$

c) $5,378 + 2,000 =$

g) $300 + 5,378 =$

d) $5,378 - 6 =$

h) $5,378 - 300 =$

3

Complete the calculations.

a) $6,058 + 1 =$

b) $6,058 + 20 =$

$6,058 + 2 =$

$6,058 + 30 =$

$6,058 + 3 =$

$6,058 + 40 =$

$6,058 + 4 =$

$6,058 + 50 =$

$5 + 6,058 =$

$60 + 6,058 =$

4

Mo is going to add 100 to each number.

Circle the numbers where the 1,000s will change.

2,450

3,928

4,180

5,905

972

What do you notice?



5 Mr Hall has £1,342 in the bank.

a) Mr Hall puts in £500 more.

How much money does he have in the bank now?



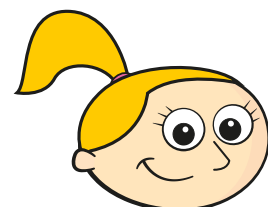
b) Then he puts in £600 more.

How much money does Mr Hall have in the bank now?

c) Then Mr Hall takes out £60

How much money does he have in the bank now?

6 Is Eva correct?



If I keep taking ten away from the number 2,562 only the tens will change.



7 Write the missing numbers.

a) $6,951 - \square = 6,921$ c) $1,706 + \square = 1,766$

$6,951 - \square = 6,881$ $1,706 - \square = 906$

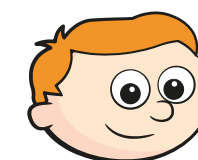
b) $6,421 - 700 = \square$ d) $3,500 - \square = 2,700$

$6,421 + 700 = \square$ $3,500 - \square = 3,430$

Which calculations were easy to work out?

Which were more difficult to work out?

8



To add 3,812 and 1,400 together, you can add 1,000 to 3,812 and then add 400

a) Use Ron's method to work out $3,812 + 1,400$

Could you have worked this out mentally?

b) Use Ron's method to complete the calculations.

$1,780 + 2,200 = \square$

$3,084 + 720 = \square$

$591 + 2,820 = \square$



Add two 4-digit numbers – no exchange

1 Calculate $314 + 522$

Use the place value chart to help you.

H	T	O
100 100 100	10	1 1 1 1
100 100 100 100 100	10 10	1 1

$$314 + 522 = \boxed{}$$

2 a) Calculate $3,214 + 5,122$

Use the place value chart to help you.

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

$$3,214 + 5,122 = \boxed{}$$

b) Now calculate $3,214 + 122$ in the same way.

$$3,214 + 122 = \boxed{}$$

c) What do you notice about your answers to part a) and part b)?

3 Complete the calculations.

a) $4,122 + 2,605 = \boxed{}$

b) $3,709 + 4,160 = \boxed{}$

c) $247 + 1,032 = \boxed{}$

d) $3,007 + 560 = \boxed{}$

4 Alex is calculating $5,702 + 125$

	Th	H	T	O
	5	7	0	2
+	1	2	5	
	6	9	5	2

Do you agree with Alex? _____

Explain your answer.

Complete the calculation.

$$5,702 + 125 = \boxed{}$$

5 The distance from Scotland to France is 1,550 km.

The distance from France to Spain is 1,002 km.

Teddy is travelling from Scotland to France and then France to Spain.

How far will he travel in total?

6 Whitney and Jack are playing a game.

Whitney has 1,323 points.

Jack has 230 points more than Whitney.

How many points do they have altogether?

7 Fill in the missing digits.

		Th	H	T	O	
		3		2		
	+		4		6	
		8	7	9	6	

8 Complete the calculation.

$$2,415 + 5,142 = \boxed{}$$

What do you notice about the numbers in the question?

How does this affect the answer?

Think of some more calculations like this.

Try them out with a partner.

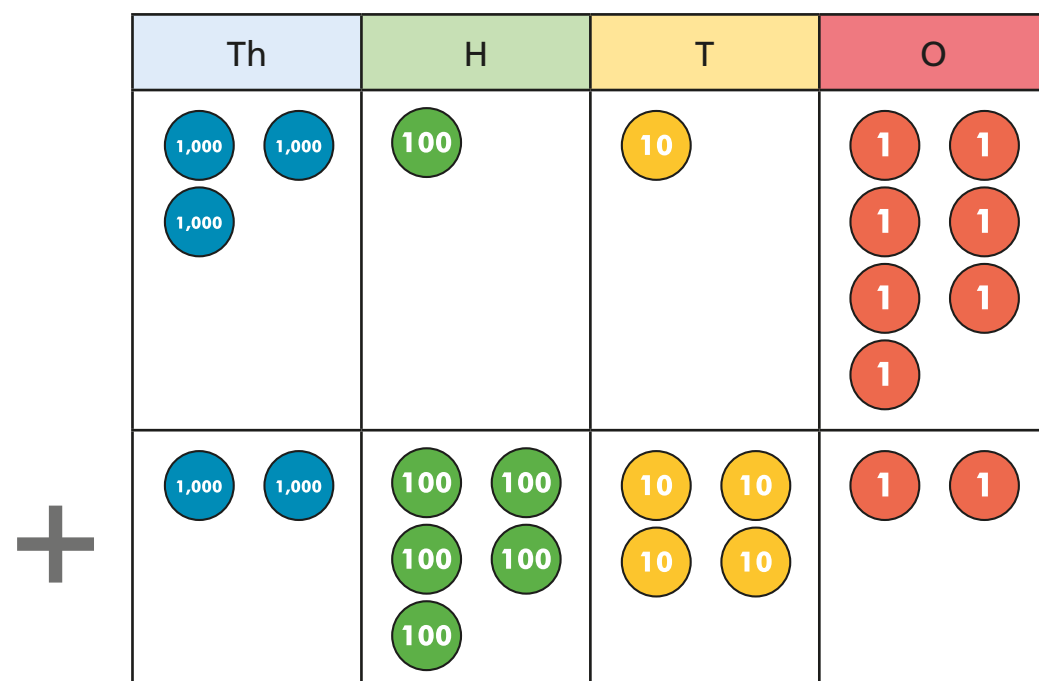


Add two 4-digit numbers – one exchange

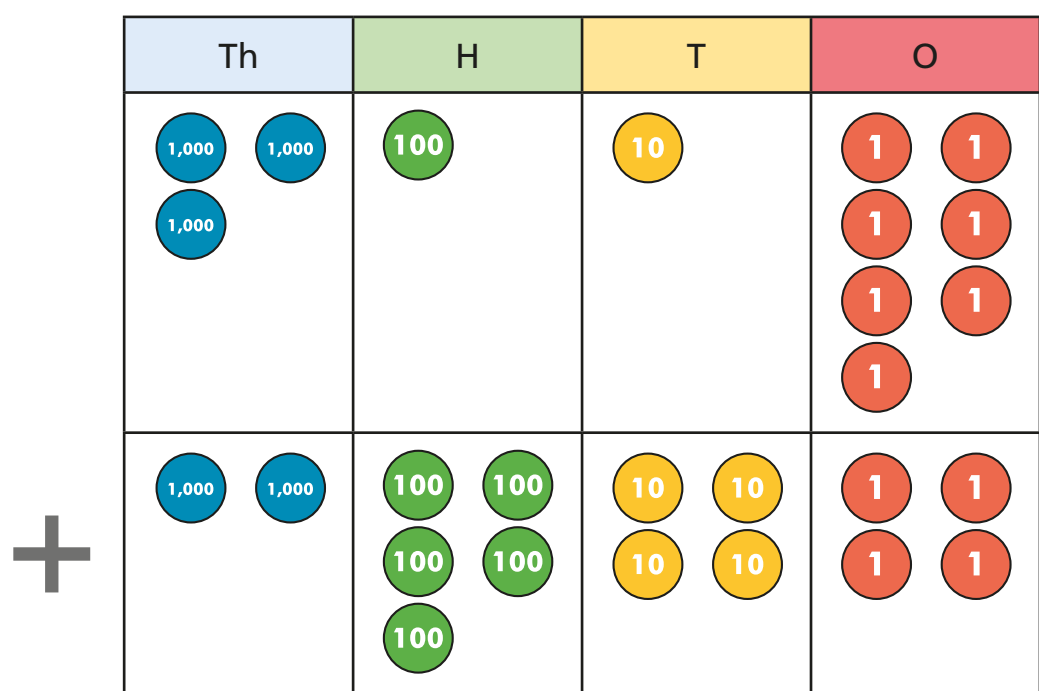
1 Complete the calculations.

Use the place value charts to help you.

a) $3,117 + 2,542 =$



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



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 10 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 have calculated $4,635 + 183$

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

A

B

C

D

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)

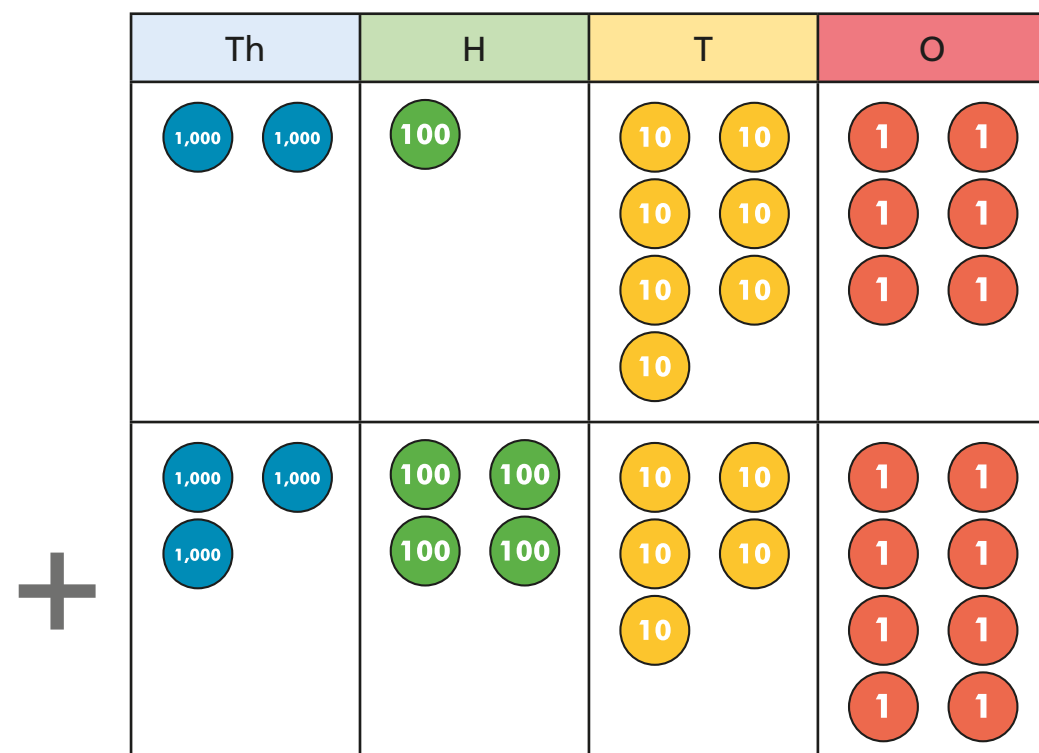
		Th	H	T	O	
		3		2		
	+		4		6	
		8	7	9	1	

b)

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

Add two 4-digit numbers – more than one exchange

1 Complete the calculation.



		Th	H	T	O
		2	1	7	6
	+	3	4	5	8

2 Who has got each question correct? Tick your answer.

a) Nijah

		H	T	O
		4	4	5
	+	3	4	8
		78	1	3

Scott

		H	T	O
		4	4	5
	+	3	4	8
		7	9	3
			1	

b) Nijah

		Th	H	T	O
		4	8	2	6
	+	1	7	8	
		6	6	0	6
		1	1		

Scott

		Th	H	T	O
		4	8	2	6
	+		1	7	8
		5	0	0	4
		1	1	1	

What mistake has the other person made in each calculation?

Talk about it with a partner.

3 Complete the additions.

a)

		Th	H	T	O
		4	7	1	2
	+	3	4	9	2

c) 3,784 + 2,526

b)

		Th	H	T	O
		6	0	7	5
	+		9	4	8

d) 79 + 654 + 1,312

4

$712 + 394$

$1,312 + 2,527$

$$2,350 + 3,760$$

$$1,995 + 712$$

$$3,044 + 2,372$$

$17 + 953$

No exchange needed	One exchange	More than one exchange

Write one more calculation of your own in each column.

5

The table shows the number of points he gets in each round.

Round	1	2	3
Number of points	3,550	2,175	1,895

a) How many points does Dexter have at the end of Round 2?

A 10x5 grid with a black rectangle in the bottom right corner. The rectangle is 2 units wide and 1 unit high, located in the bottom right corner of the grid.

b) He needs 8,000 by the end of Round 3 to win the game.

Does Dexter win the game? _____

Show your workings.

[illegible]

6

a)

		Th	H	T	O	
--	--	----	---	---	---	--

a)

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

b)

		Th	H	T	O	
				8	1	
	+		9	8		
		4	2		8	

c) Find two possible answers.

		Th	H	T	O	
		2		1		
	+	3		6		
		6	1	8	2	

		Th	H	T	O	
		2		1		
	+	3		6		
		6	1	8	2	

How did you work this out? Talk about it with a partner.

Are there any more answers?

Subtract two 4-digit numbers – no exchange

1 Use the place value chart to work out $5,624 - 2,301$

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

$$5,624 - 2,301 = \boxed{}$$

Complete the calculation.

	Th	H	T	O
	5	6	2	4
–	2	3	0	1

What is the same about the representations?

What is different?

2 Use the place value charts to complete the calculations.

a) $3,412 - 1,201$

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

	Th	H	T	O
	3	4	1	2
–	1	2	0	1

b) $5,361 - 3,241$

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

	Th	H	T	O
	5	3	6	1
–	3	2	4	1

c) $7,405 - 404$

Th	H	T	O
1,000 1,000	100 100		1 1
1,000 1,000	100 100		1 1
1,000 1,000			1
1,000			

	Th	H	T	O
	7	4	0	5
–		4	0	4

3 Complete the calculations.

a)

	Th	H	T	O
	9	3	1	6
–	7	2	0	5

c)

	Th	H	T	O
	4	9	2	7
–		3	1	5

b)

	Th	H	T	O
	8	0	6	1
–	3	0	6	0

4 Aisha is calculating $7,585 - 316$

		Th	H	T	O	
		7	5	8	5	
	-	3	1	6		
		4	4	2	5	

$$7,585 - 316 = 4,425$$

Do you agree with Aisha? _____

Explain your answer.



5 Complete the calculations. Show your workings.

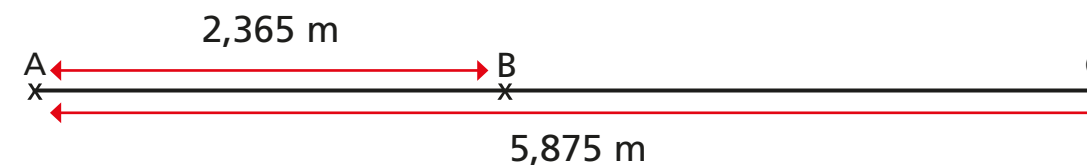
a) $6,205 - 104 =$

b) $3,749 - 1,642 =$

c) $= 5,371 - 3,260$

d) $= 9,853 - 853$

6 The distance from A to B is 2,365 m.
The distance from A to C is 5,875 m in the same direction.
How far is C from B?



7 Whitney and Ron are playing a game.
Whitney has 1,353 points.
Ron has 230 points fewer than Whitney.
How many points do they have altogether?

Subtract two 4-digit numbers – one exchange



1

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

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

$$5,435 - 3,215 = \boxed{}$$

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

$$5,435 - 3,216 = \boxed{}$$

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?

2 Complete the sentences.

1 ten can be exchanged for ones.

1 hundred can be exchanged for 10 _____.

1 thousand can be exchanged for _____.

3 Complete the calculations.

a)

	H	T	O
	3	2	7
-	1	1	9

c)

Th	H	T	O
9	8	4	5
-	6	2	1

b)

Th	H	T	O
7	6	7	3
-		1	3

4 Complete the calculations.

a)

H	T	O
3	2	7
-	1	3

c)

Th	H	T	O
9	8	4	5
-	2	3	6

b)

Th	H	T	O
7	6	7	3
-		2	8

5 Complete the calculations.

a)

		Th	H	T	O	
		3	2	7	0	
	–	1	3	2	0	

c)

		Th	H	T	O	
		9	8	4	5	
	–	1	9	2	1	

b)

		Th	H	T	O	
		7	6	7	3	
	–		7	2	1	

6 Annie is calculating $3,467 - 2,148$

Here are her workings.

		Th	H	T	O	
		3	4	6	7	
	–	2	1	4	8	
		1	3	2	1	

Do you agree with Annie? _____

Explain your answer.

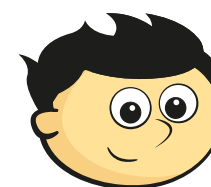


7 A car costs £8,716

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

How much does the motorbike cost?

8 Jack is thinking of two 4-digit numbers.



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

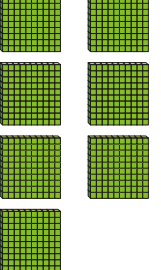
What is the sum of the two numbers?



Subtract two 4-digit numbers – more than one exchange



1 Kim has made a number using base 10

Th	H	T	O
			

a) Subtract 8 from Kim's number.

b) Explain the method you used.

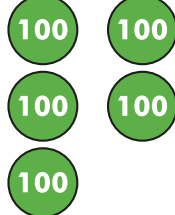
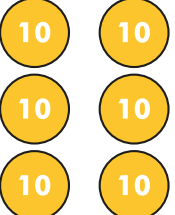
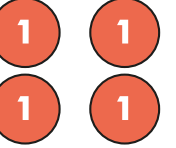
c) Subtract 20 from Kim's number.

d) Subtract 900 from Kim's number.

e) Complete the subtractions.

$$1,702 - 28 = \boxed{} \quad 1,702 - 928 = \boxed{}$$

2 Use the place value chart to complete the subtractions.

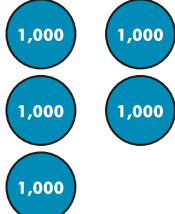
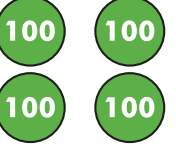
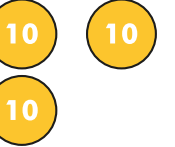
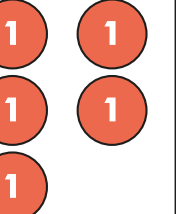
H	T	O
		

$$\text{a) } 564 - 354 = \boxed{} \quad \text{c) } 564 - 365 = \boxed{}$$

$$\text{b) } 564 - 355 = \boxed{}$$

Look at your calculations in parts a), b) and c).
What is the same? What is different?

3 Use the place value chart to complete the subtractions.

Th	H	T	O
			

$$\text{a) } 5,435 - 2,036 = \boxed{}$$

$$\text{b) } 5,436 - 2,036 = \boxed{}$$

$$\text{c) } 5,437 - 2,036 = \boxed{}$$

Look at your calculations in parts a), b) and c).
What is the same? What is different?

4 Complete the calculations.

a)

		Th	H	T	O
		7	3	2	5
	–	2	4	0	6

c)

		Th	H	T	O
		7	1	0	2
	–		3	9	8

b)

		Th	H	T	O
		5	6	3	4
	–	2	7	4	5

d)

		Th	H	T	O
		5	0	0	0
	–	1	7	3	3

5 A jug contains 1,500 ml of juice.



The juice is poured into 2 glasses.
Each glass holds 258 ml of juice.
How much juice is left in the jug?



6 Work out the missing digits.

a)

		Th	H	T	O
		7			4
	–	1	2	3	
			9	5	8

b)

		Th	H	T	O
		4	0		3
	–			3	8
			8	4	

7 Arrange all the digit cards to make a possible subtraction for each description.

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

a) There are two exchanges.
The answer is
less than 2,000

–			

b) There are two exchanges.
The answer is
greater than 4,000

–			

c) There are three exchanges.

–			



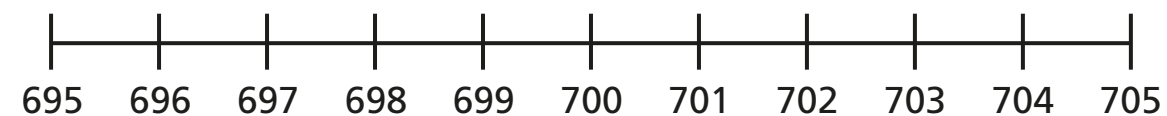
Efficient subtraction



I a) Use the column method to work out $704 - 696$

		H	T	O	
		7	0	4	
	-	6	9	6	

b) Count on the number line to work out $704 - 696$



c) Which method do you prefer? _____

Why?

2 Complete the subtractions by counting on.

a) $902 - 897 =$

c) $2,027 - 1,999 =$

b) $1,902 - 1,894 =$

3 a) Use column subtraction to complete the calculations.

		H	T	O	
		7	0	0	
	-	3	4	8	

		Th	H	T	O	
		6	0	0	0	
	-	2	1	4	5	

What do you notice?

Rosie and Amir have calculated $700 - 348$ using different methods.

b) Rosie's method

		H	T	O	
		6	9	9	
	–	3	4	8	
		3	5	1	

$$351 + 1 = 352$$

so $700 - 348 = 352$

Use Rosie's method to work out $6,000 - 2,145$

A 5x15 grid of squares. A black rectangle is drawn in the bottom right corner, spanning 3 squares horizontally and 2 squares vertically. The rectangle is located in the bottom row, starting from the 12th square from the left and ending at the 15th square. It also spans the 4th and 5th rows from the bottom.

Estimate answers

1 Filip is working out $607 + 395$

He rounds his numbers to the nearest hundred to estimate the answer.

a) Complete the sentences.

607 rounded to the nearest hundred is

395 rounded to the nearest hundred is

Filip's estimate for the answer is

+ =

b) Use column addition to work out the actual answer.

		Th	H	T	O
			6	0	7
	+		3	9	5

The actual answer is

2 Alex is working out $7,958 - 6,103$

Alex rounds her numbers to the nearest thousand to estimate the answer.

a) Complete the sentences.

7,958 rounded to the nearest thousand is

6,103 rounded to the nearest thousand is

Alex's estimate is

- =

b) Use column subtraction to work out the actual answer.

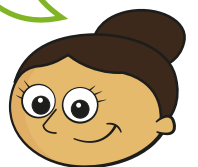
		Th	H	T	O
		7	9	5	8
	-	6	1	0	3

The actual answer is

3 Mr Howell writes a subtraction on the board.

$$795 - 503$$

I estimate the answer will be close to 200 because $700 - 500 = 200$



What mistake has Dora made?

Write a better estimate.

4 a) Tom is estimating an addition calculation.

His estimate is $3,000 + 1,000 = 4,000$

Write three possible additions Tom could be estimating.

$$\begin{array}{l} \boxed{} + \boxed{} = \boxed{} \\ \boxed{} + \boxed{} = \boxed{} \\ \boxed{} + \boxed{} = \boxed{} \end{array}$$



b) Dani is estimating a subtraction calculation.

Her estimate is $\pounds 600 - \pounds 100 = \pounds 500$

Write three possible subtractions Dani could be estimating.

$$\boxed{} - \boxed{} = \boxed{}$$

$$\boxed{} - \boxed{} = \boxed{}$$

$$\boxed{} - \boxed{} = \boxed{}$$

5 Complete the table. Show your workings.

Question	Estimated answer	Accurate answer
$3,970 \text{ km} - 1,850 \text{ km}$		
$7,076 - 852$		
$7,076 - 652$		
$1,994 \text{ ml} + 1,994 \text{ ml}$		

6 Whitney and Dexter are estimating the answer to $2,706 - 1,394$

Whitney's estimate is $3,000 - 1,000 = 2,000$

Dexter's estimate is $2,700 - 1,400 = 1,300$

Whose estimate is more accurate? _____

Why? _____

7 A forest has 2,638 trees.



1,172 more trees are planted.

a) Use rounding to estimate the number of trees in the forest now.

b) Work out the actual number of trees in the forest.

c) How accurate was your estimate?

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	

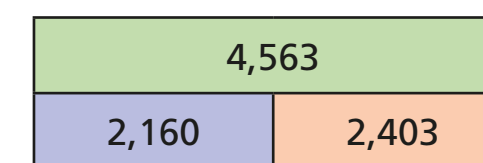
b)

		H	T	O	
		5	6	7	
	-	1	5	2	
		4	1	5	

c)

		Th	H	T	O	
		2	4	1	1	
	-	1	3	0	6	
		1	1	0	5	

- 4 Complete the fact family for the bar model.



	+		=	
	+		=	
	-		=	
	-		=	

- 5 Teddy is working out $5,671 + 325$

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

Teddy checks his calculation using the same addition.
Is this a good idea? What mistake has Teddy made?



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) $372 + 405 =$

b) $1,372 + 450 =$

c) $6,572 - 2,320 =$

d) $6,004 - 729 =$
