

Year 3 Maths - 1.06.20

LO: Add and subtract 2-digit and 3-digit numbers - not crossing 10 or 100

You can watch the Tutorial White Rose video here:

<https://vimeo.com/417332039>

Day 1 Starter:

1) How much money is there altogether?



2) Multiply 24 by 2

3) What is 4×12 ?

4) How many points do Class 3 have?

Class	Tally	Total points
Class 3		

Day 1 Starter

Answers:

1) How much money is there altogether? 40 p



2) Multiply 24 by 2 48

3) What is 4×12 ? 48

4) How many points do Class 3 have?

Class	Tally	Total points
Class 3		17

Add and subtract 2-digit and 3-digit
numbers – not crossing 10 or 100

1 Work out the additions.



a)

Hundreds	Tens	Ones
+		

	H	T	O
	2	5	1
+		3	2
<hr/>			

b)

H	T	O
+		

	H	T	O
	3	0	7
+		4	2
<hr/>			

c)

	H	T	O
	2	3	7
+		5	1
<hr/>			

d)

	H	T	O
	7	5	2
+		3	7
<hr/>			

2 Work out these subtractions.

a)

H	T	O
-		

	H	T	O
	4	2	7
-		1	5
<hr/>			

b)

H	T	O
-		

	H	T	O
	5	3	6
-		3	5
<hr/>			

c)

	H	T	O
	7	8	5
-		5	2
<hr/>			

d)

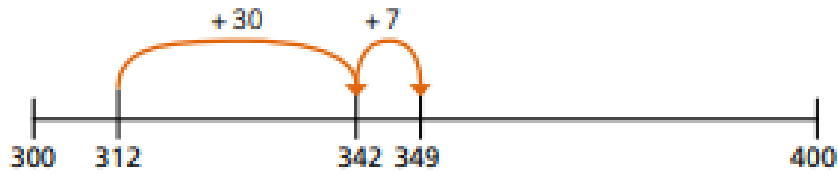
	H	T	O
	9	8	5
-		7	2
<hr/>			

3 Complete the additions.

a) $£69 + £220 = £$

b) $314 + 42 + 23 =$

4 a) Eva uses a number line to work out $312 + 37$



What has Eva done? Talk to a partner.



b) Use the number line to work out $425 + 63$



c) Use the number line to work out $774 - 62$



5 Esther has a piece of wood 255 cm long.

She cuts it into 2 pieces.



One piece is 34 cm long.

How long is the other piece?

6 Filip wants to buy these two items.



He has £200

Does he have enough money? _____

How do you know? Talk to a partner.

7 Use the digit cards to make each calculation correct.



	H	T	O
+			
	9	9	8

	H	T	O
+			
	9	8	9

	H	T	O
-			
	1	6	1

	H	T	O
-			
	6	2	2

Answers:

Add and subtract 2-digit and 3-digit numbers – not crossing 10 or 100



1 Work out the additions.

a)

Hundreds	Tens	Ones

	H	T	O
	2	5	1
+		3	2
	2	8	3

b)

H	T	O

	H	T	O
	3	0	7
+		4	2
	3	4	9

c)

	H	T	O
	2	3	7
+		5	1
	2	8	8

d)

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

2 Work out these subtractions.

a)

H	T	O

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

b)

H	T	O

	H	T	O
	5	3	6
-		3	5
	5	0	1

c)

	H	T	O
	7	8	5
-		5	2
	7	3	3

d)

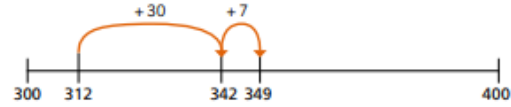
	H	T	O
	9	8	5
-		7	2
	9	1	3

3 Complete the additions.

a) £69 + £220 = £

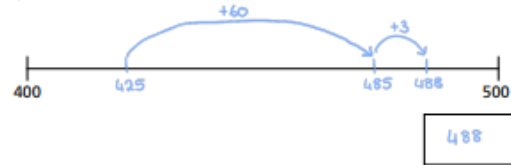
b) 314 + 42 + 23 =

4 a) Eva uses a number line to work out $312 + 37$

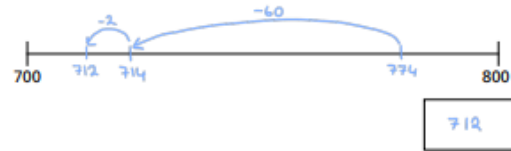


What has Eva done? Talk to a partner.

b) Use the number line to work out $425 + 63$



c) Use the number line to work out $774 - 62$



5 Esther has a piece of wood 255 cm long.

She cuts it into 2 pieces.



One piece is 34 cm long.

How long is the other piece?

6 Filip wants to buy these two items.



He has £200

Does he have enough money? Yes

How do you know? Talk to a partner.

7 Use the digit cards to make each calculation correct.

1 3 6 7 9

	H	T	O
	9	6	7
+	3	1	
	9	9	8

	H	T	O
	9	1	6
+		7	3
	9	8	9

	H	T	O
	1	9	7
-		3	6
	1	6	1

	H	T	O
	6	3	9
-		1	7
	6	2	2

Year 3 Maths - 2.06.20

LO: Add 2-digit and 3-digit numbers - crossing 10 or 100

You can watch the Tutorial White Rose video here:


<https://vimeo.com/417332285>

Day 2 Starter:

1) How many bikes were seen in the morning?

Time	Bikes seen
Morning	
Afternoon	

Key

 = 5 bikes

2) How much money is there altogether?



3) Calculate 24×3

4) What is $345 + 100$?

Day 2 Starter


Answers:

1) How many bikes were seen in the morning?

Time	Bikes seen
Morning	
Afternoon	

20 bikes

Key

 = 5 bikes

2) How much money is there altogether?



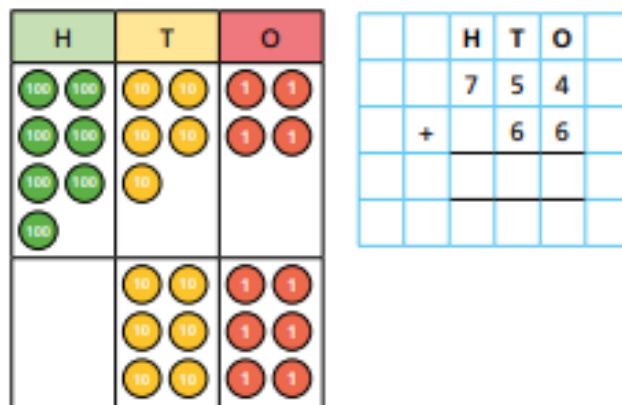
£12 and 31 p

3) Calculate 24×3 72

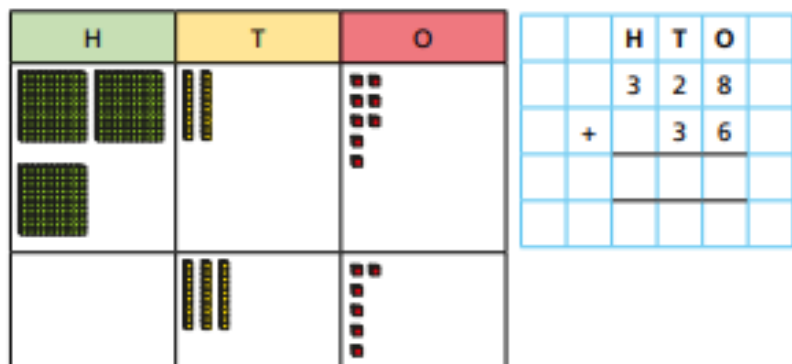
4) What is $345 + 100$? 445

Add 2-digit and 3-digit numbers – crossing 10 or 100

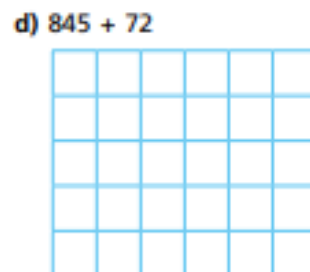
b) $754 + 66$



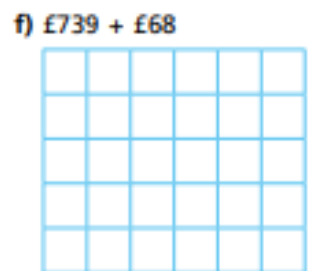
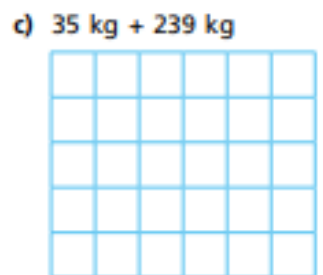
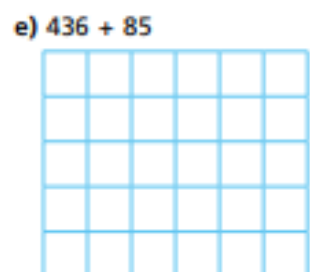
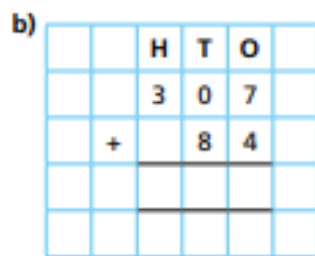
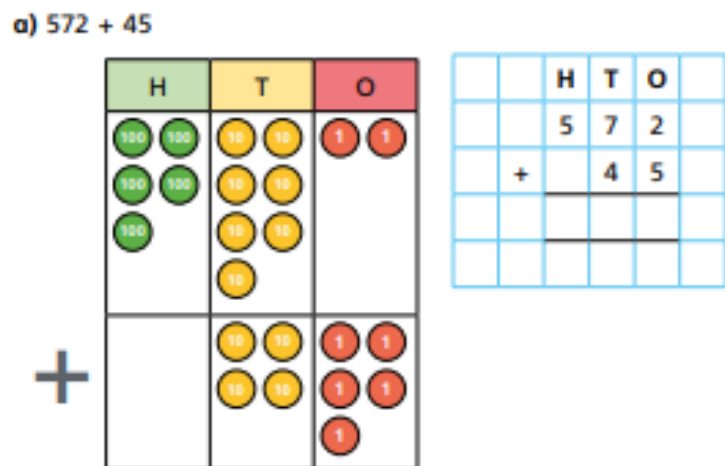
1 Use the place value chart to work out $328 + 36$



3 Work out the additions.



2 Work out the additions.



- 4 Ron works out $476 + 35$

4	7	6
+	3	5
<hr/>		
8	2	6
<hr/>		
1		

What mistake has Ron made?

Work out the correct answer.

- 5 Alex collects stickers.

She has collected 286 stickers.

She only needs 69 more stickers to fill the album.



How many stickers does the album hold when full?

- 6 Here are some digit cards.

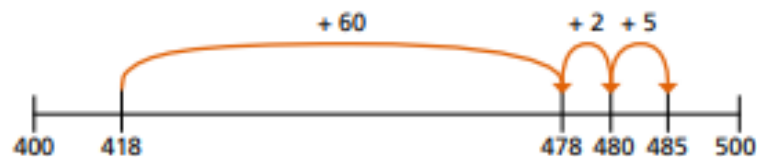


Arrange the digits to make two different additions that have just one exchange.

		H	T	O	
+					
<hr/>					
<hr/>					

		H	T	O	
+					
<hr/>					
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- 7 Mo uses a number line to work out an addition.



What addition has Mo worked out?

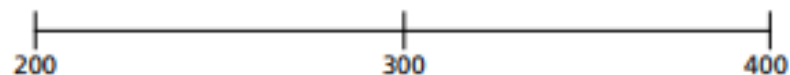
	+		=	
--	---	--	---	--

- 8 Use the number lines to complete the additions.

a) $235 + 47 =$



b) $235 + 87 =$



Answers

Add 2-digit and 3-digit numbers – crossing 10 or 100



1 Use the place value chart to work out $328 + 36$

H	T	O
300	20	8
+	30	6
300	60	4

2 Work out the additions.

a) $572 + 45$

H	T	O
500	70	2
+	40	5
600	10	7

b) $754 + 66$

H	T	O
700	50	4
+	60	6
800	20	0

3 Work out the additions.

a)

H	T	O
100	70	5
+	70	2
200	40	7

d) $845 + 72$

H	T	O
800	40	5
+	70	2
900	10	7

b)

H	T	O
300	0	7
+	80	4
300	90	1

e) $436 + 85$

H	T	O
400	30	6
+	80	5
500	20	1

c) $35 \text{ kg} + 239 \text{ kg}$

H	T	O
200	30	9
+	30	5
200	70	4

f) $£739 + £68$

£	T	O
£700	30	9
+	£60	8
£800	0	7

4 Ron works out $476 + 35$

476
+ 35
826

What mistake has Ron made?

Work out the correct answer.

511

5 Alex collects stickers.

She has collected 286 stickers.

She only needs 69 more stickers to fill the album.



How many stickers does the album hold when full?

355

6 Here are some digit cards.

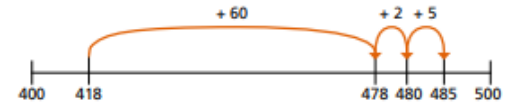
2 3 5 7 8

Arrange the digits to make two different additions that have just one exchange. Various answers e.g.

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

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

7 Mo uses a number line to work out an addition.

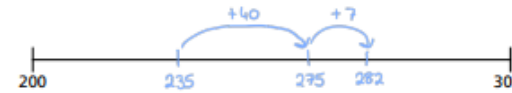


What addition has Mo worked out?

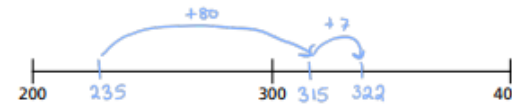
$418 + 67 = 485$

8 Use the number lines to complete the additions.

a) $235 + 47 = 282$



b) $235 + 87 = 322$



Year 3 Maths - 3.6.20




LO: Subtract a 2-digit number from a 3-digit number -
crossing 10 or 100

You can watch the Tutorial White Rose video here:

<https://vimeo.com/417332443>

Day 3 Starter:

1) How many animals are there altogether?

Animals	Number in shop
Fish	
Hamsters	
Guinea Pigs	

Key

 = 4 animals

2) Write 548p in pounds and pence.




3) Find the product of 18 and 4

4) What is $345 - 100$?

Day 3 Starter

Answers:

1) How many animals are there altogether? **40**

Animals	Number in shop
Fish	
Hamsters	
Guinea Pigs	

Key

 = 4 animals

2) Write 548p in pounds and pence. **£5 and 48p**

3) Find the product of 18 and 4 **72**

4) What is $345 - 100$? **245**

Subtract 2-digit numbers from 3-digit numbers – crossing 10 or 100



1 Use base 10 to make the number 253

Subtract 27 from 253

Hundreds	Tens	Ones

a) Show a partner the method you used.

b) Complete the column subtraction.

	H	T	O
	2	5	3
-		2	7
<hr/>			

2 Work out $426 - 82$

H	T	O

	H	T	O
	4	2	6
-		8	2
<hr/>			

3 Work out the subtractions.

a)

	H	T	O
	2	6	5
-		3	8
<hr/>			

d) $212 \text{ cm} - 42 \text{ cm}$

b)

	H	T	O
	1	7	2
-		3	9
<hr/>			

e) $413 - 65$

c) $538 - 75$

f) $847 - 79$

4 A film is shown 3 times in a day.

The table shows how many children watch each showing.

Showing time	11 am	3 pm	7 pm
Number of children	462	295	78

How many more children watch the 11 am showing than the 7 pm showing?

5 Find the missing values.

a)

728	
45	

b)

650		
38	53	

6 What mistakes have been made in these column subtractions?

a)

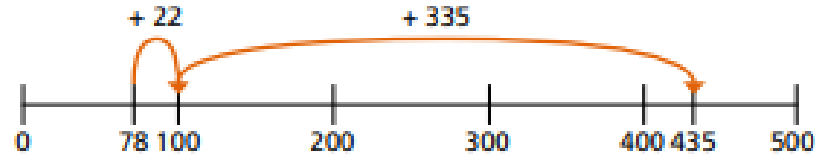
3	5	7
-	2	9
<hr/>		
3	3	2

b)

	4	0	2
-		3	5
<hr/>			
	4	7	7

_____	_____
_____	_____
_____	_____
_____	_____

7 Whitney uses a number line to show that $435 - 78 = 357$



Explain what you think Whitney has done.

8 Work out the missing digits.

a)

		H	T	O	
			4	5	
	-		2		
		7		6	

b)

		H	T	O	
		3			
	-		7	8	
			2	8	

9 a) Use three different methods to work out $470 - 79$

Compare methods with a partner.

b) How can you work out $500 - 68$ in your head?

What method did you use?

Answers

Subtract 2-digit numbers from 3-digit numbers – crossing 10 or 100



- 1 Use base 10 to make the number 253
Subtract 27 from 253

Hundreds	Tens	Ones

- a) Show a partner the method you used.
b) Complete the column subtraction.

	H	T	O
	2	5	3
-		2	7
	2	2	6

- 2 Work out $426 - 82$

H	T	O

	H	T	O
	4	2	6
-		8	2
	3	4	4

- 3 Work out the subtractions.

a)

	H	T	O
	2	5	5
-		3	8
	2	2	7

d) $212 \text{ cm} - 42 \text{ cm}$

2	1	2	cm
-	4	2	cm
1	7	0	cm

b)

	H	T	O
	1	2	2
-		3	9
	1	3	3

e) $413 - 65$

4	1	3
-	6	5
3	4	8

c) $538 - 75$

5	3	8
-	7	5
4	6	3

f) $847 - 79$

8	4	7
-	7	9
7	6	8

- 4 A film is shown 3 times a day.

The table shows how many children watch each showing.

Showing time	11 am	3 pm	7 pm
Number of children	462	295	78

How many more children watch the 11 am showing than the 7 pm showing?

384

- 5 Find the missing values.

a)

	728
45	683

b)

	650	
38	53	559

- 6 What mistakes have been made in these column subtractions?

a)

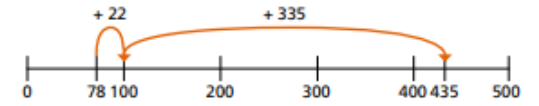
3	5	7
-	2	9
3	3	2

b)

4	0	2
-	3	5
4	7	7

This person has found the difference between the numbers in each column. This person has subtracted 1 hundred for 10 ones.

- 7 Whitney uses a number line to show that $435 - 78 = 357$



Explain what you think Whitney has done.

Counted on from 78 to 435

- 8 Work out the missing digits.

a)

	H	T	O
	7	5	5
-		2	9
	7	1	6

b)

	H	T	O
	3	8	6
-		7	8
	2	2	8

- 9 a) Use three different methods to work out $470 - 79$

E.g.
 $470 - 70 = 400$
 $400 - 9 = 391$
 $470 - 80 = 390$
 $390 + 1 = 391$
 $\begin{array}{r} 470 \\ - 79 \\ \hline 391 \end{array}$

Compare methods with a partner.

- b) How can you work out $500 - 68$ in your head?

What method did you use?

Various answers

Year 3 Maths - 4.6.20




LO: Add two 3-digit numbers - not crossing 10 or 100

You can watch the Tutorial White Rose video here:


<https://vimeo.com/417332649>

Day 4 Starter:

1) How many more children play football than rugby?

Sport played	Number of children
Football	
Rugby	
Netball	

Key

 = 10 children

2) Write 682p in pounds and pence.




3) Divide 48 by 2

4) Find the sum of 342 and 189

Day 4 Starter


Answers:

1) How many more children play football than rugby?

Sport played	Number of children
Football	
Rugby	
Netball	

25

Key

 = 10 children

2) Write 682p in pounds and pence. £6 and 82p

3) Divide 48 by 2 24

4) Find the sum of 342 and 189 531

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

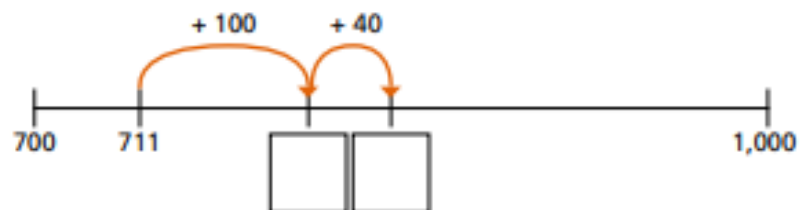
	H	T	O
	3	6	2
+	2	0	5

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

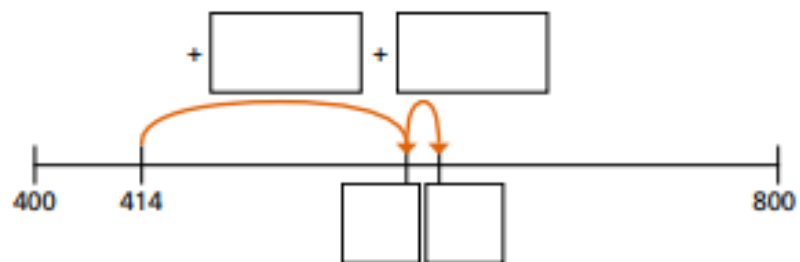
- 3 Mrs Morgan drives 230 km on Monday.
On Tuesday she drives 169 km.
How far does she drive in total on Monday and Tuesday?

- 4 Complete the number line to work out the addition.

a) $711 + 140 =$



b) $414 + 203 =$



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 2 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 the most 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 6 digits.
- Each addition gives the same answer of 888
- Each child adds 2 different numbers together.

Work out a possible set of addition problems.

	H	T	O
+			
	8	8	8

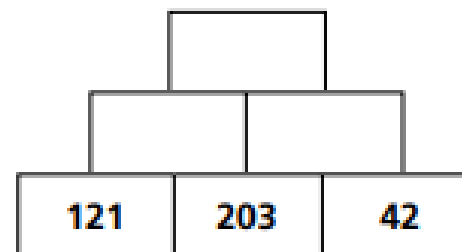
	H	T	O
+			
	8	8	8

	H	T	O
+			
	8	8	8

8 Here is an addition pyramid.

Add the two numbers below to make the number above.

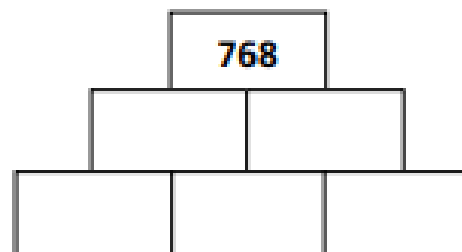
a) Complete the addition pyramid.



b) Complete the addition pyramid.

None of the additions should have an exchange.

The total is 768



Compare answers with a partner.



Answers

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

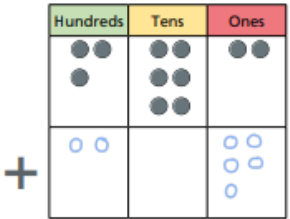


- 1 Complete the column addition.
Use base 10 to help you.



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

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



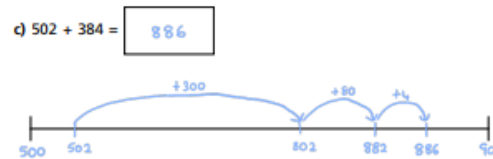
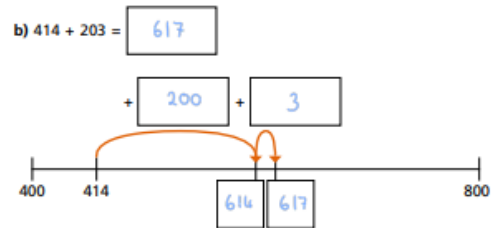
H	T	O
3	6	2
+	2	0
5	6	7

- a) Draw counters to complete the chart.
b) Complete the column addition.
c) 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?

399 km

- 4 Complete the number line to work out the addition.



- 5 Complete the additions.

a) $736 + 203 = 939$ c) $£391 + £505 = £896$
b) $184 + 105 = 289$

- 6 The table shows the number of boys and girls in 2 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 the most girls?

A

How do you know?

- b) How many girls are there in school B?

129

- 7 Three children each work out an addition problem.

- Each child uses the same 6 digits.
- Each addition gives the same answer of 888
- Each child adds 2 different numbers together.

Work out a possible set of addition problems.

E.g.

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

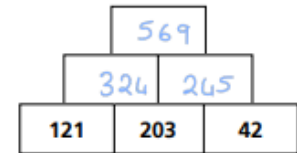
	H	T	O
	3	7	2
+	5	1	6
	8	8	8

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

- 8 Here is an addition pyramid.

Add the two numbers below to make the number above.

- a) Complete the addition pyramid.

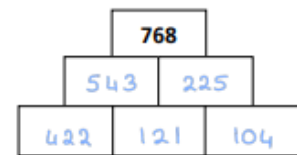


- b) Complete the addition pyramid.

None of the additions should have an exchange.

The total is 768

E.g.



Compare answers with a partner.