



# Maths

Addition, Subtraction,  
Multiplication and Division

# Pyramid Puzzles



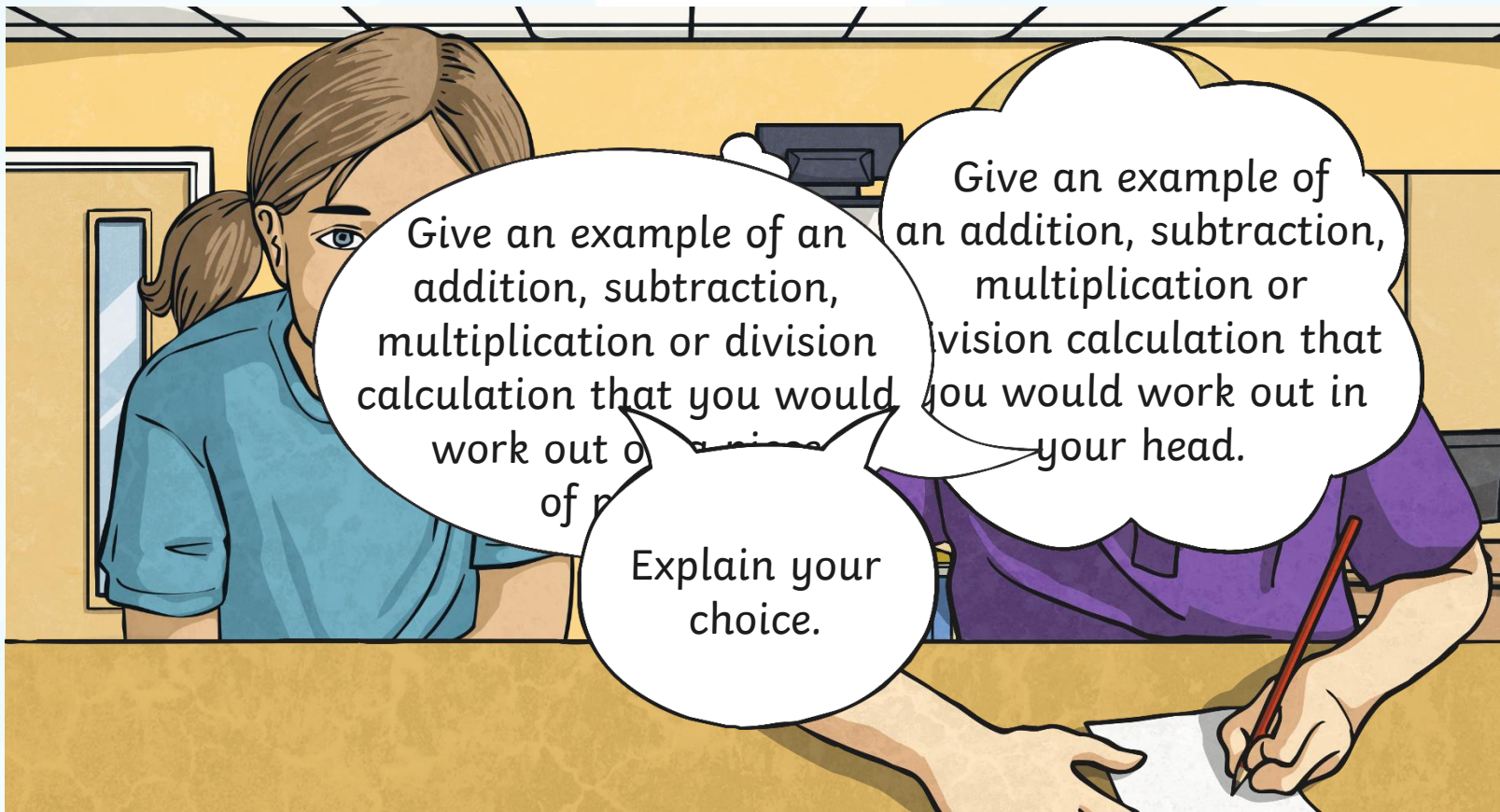
# Aim

- I can add and subtract numbers using a formal written method.

# Success Criteria

- I can add and subtract numbers with decimals.
- I can add and subtract increasingly larger numbers.
- I can use a formal written method.

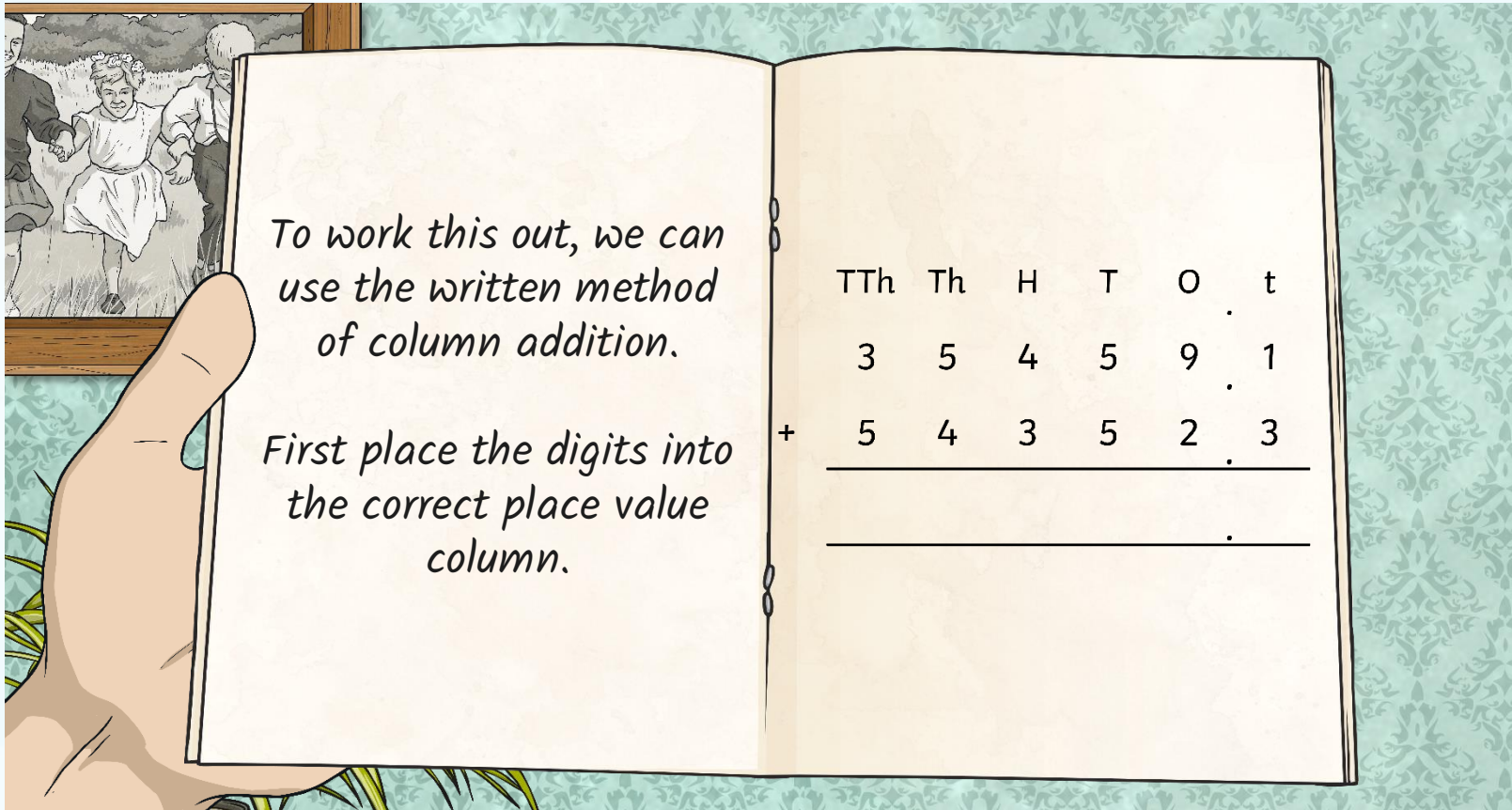
# Which Method?



# Building Blocks 1

We can use a formal written method to add or subtract numbers.  
We are going to look at column addition and column subtraction.

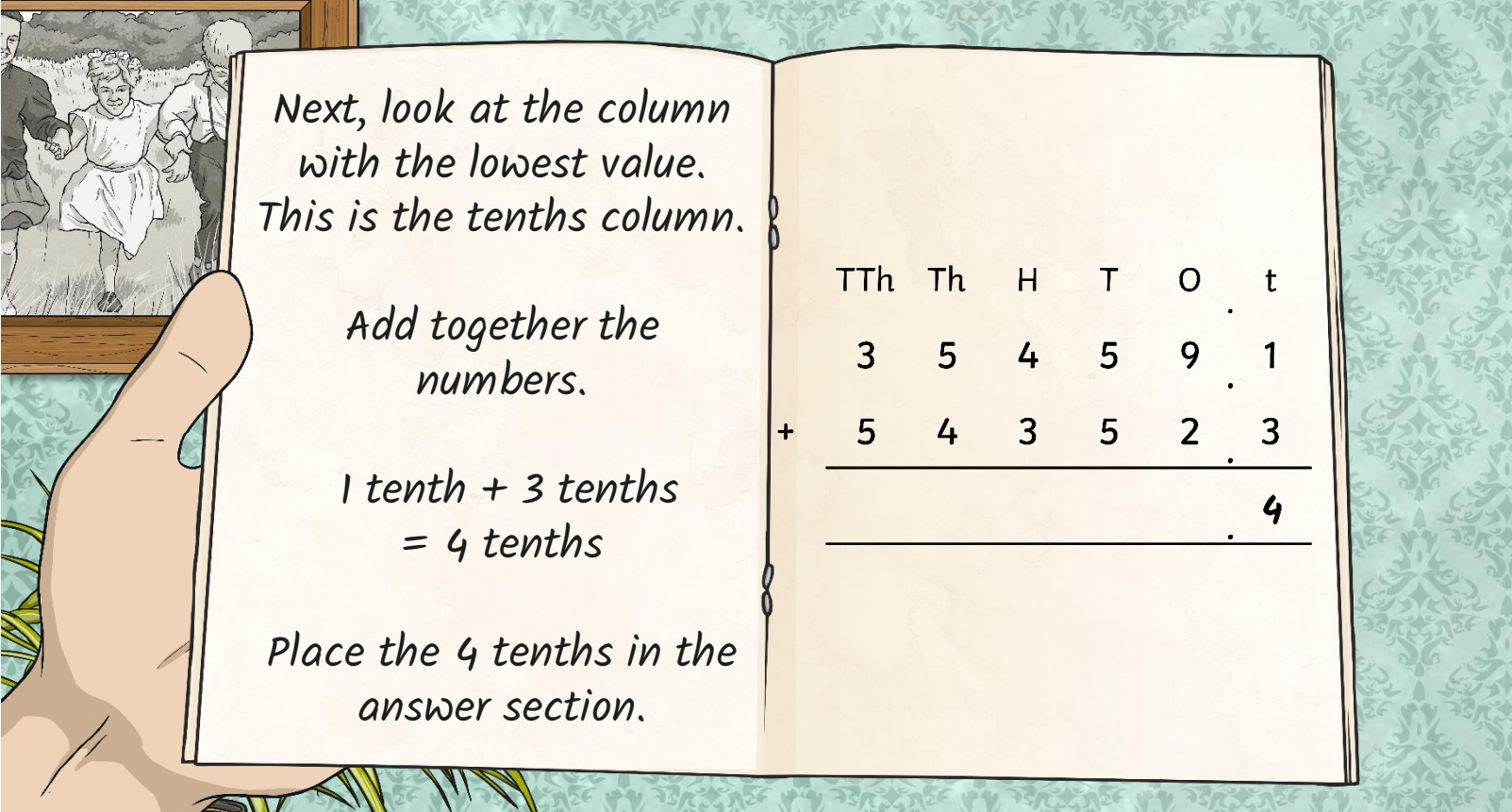
$$354591 + 543523 =$$





# Building Blocks 1

$$35\,459.1 + 54\,352.3 =$$



Next, look at the column  
with the lowest value.  
This is the tenths column.

Add together the  
numbers.

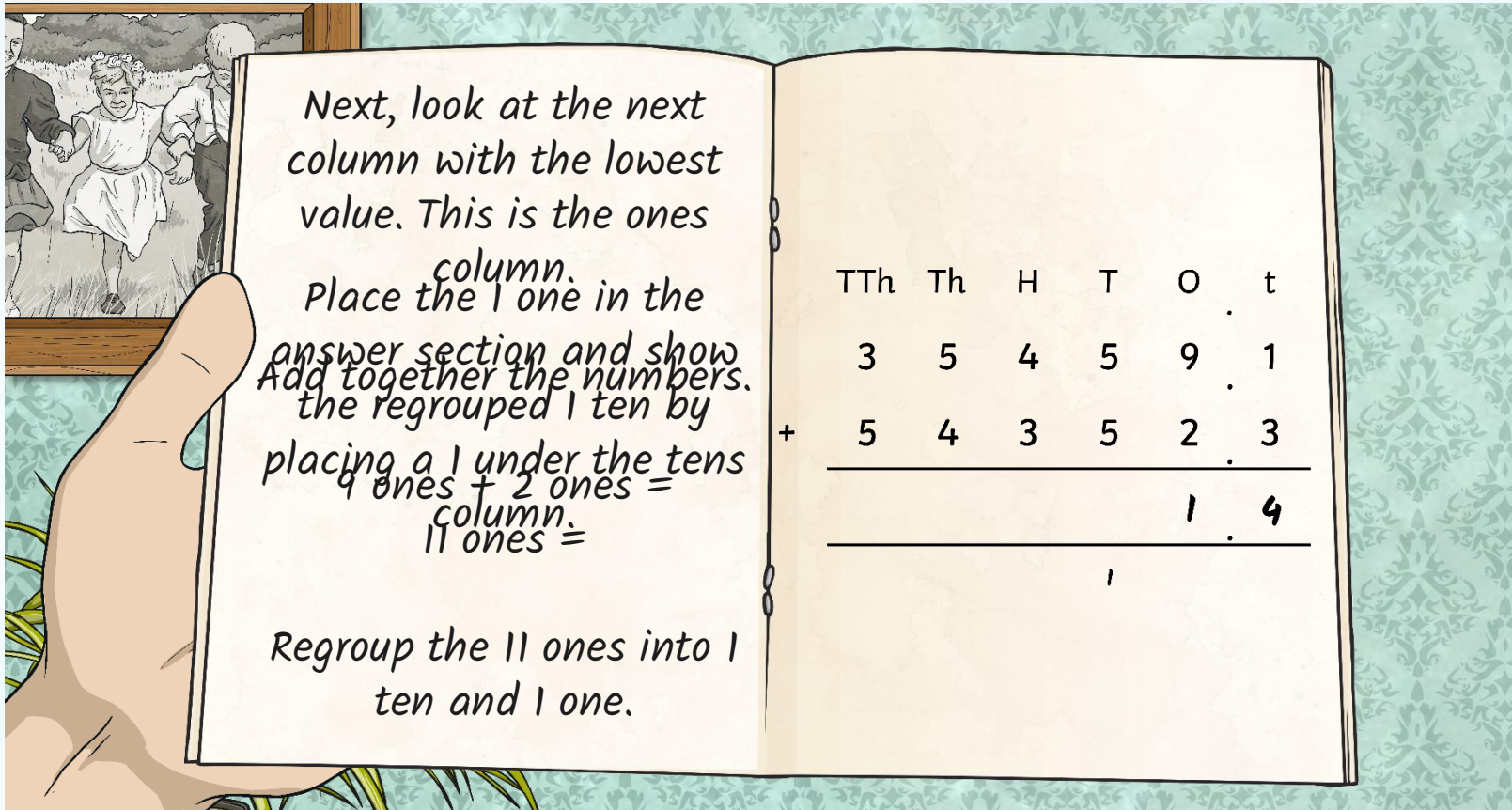
$$1 \text{ tenth} + 3 \text{ tenths} \\ = 4 \text{ tenths}$$

Place the 4 tenths in the  
answer section.

TTh	Th	H	T	O	t
3	5	4	5	9	1
+	5	4	3	5	2
					3
					4

# Building Blocks 1

$$35\,459.1 + 54\,352.3 =$$



Next, look at the next column with the lowest value. This is the ones column.

Place the 1 one in the answer section and show the regrouped 1 ten by placing a 1 under the tens column.

9 ones + 2 ones = 11 ones =

Regroup the 11 ones into 1 ten and 1 one.

TTh	Th	H	T	O	t
3	5	4	5	9	1
+	5	4	3	5	2
					3
					1
					4
					1

# Building Blocks 1

$$35\,459.1 + 54\,352.3 =$$

Next, look at the next column with the lowest value. Regroup the 11 tens into 1 hundred and 1 ten. This is the tens column.

Place the 1 ten, the answer section and show the not forgetting the 1 ten regrouped 1 hundred by placing a 1 under the hundreds column.

5 tens + 5 tens + 1 ten = 11 tens

TTh	Th	H	T	O	t
3	5	4	5	9	1
+	5	4	3	5	2
			1	1	4
		1	1		



# Building Blocks 1

$$35\,459.1 + 54\,352.3 =$$

Next, look at the next column with the lowest value. This is the hundreds column. ~~3~~ hundreds + 1 hundred = 4 hundreds.

Write this together as the answer numbers, ~~not~~ forgetting the 1 hundred that was regrouped.

TTh	Th	H	T	O	t
3	5	4	5	9	1
+	5	4	3	5	2
<hr/>					
		8	1	1	4
<hr/>					
		1	1		

# Building Blocks 1

$$35\,459.1 + 54\,352.3 =$$

Next, look at the next column with the lowest value. This is the thousands column.

Add together the numbers.

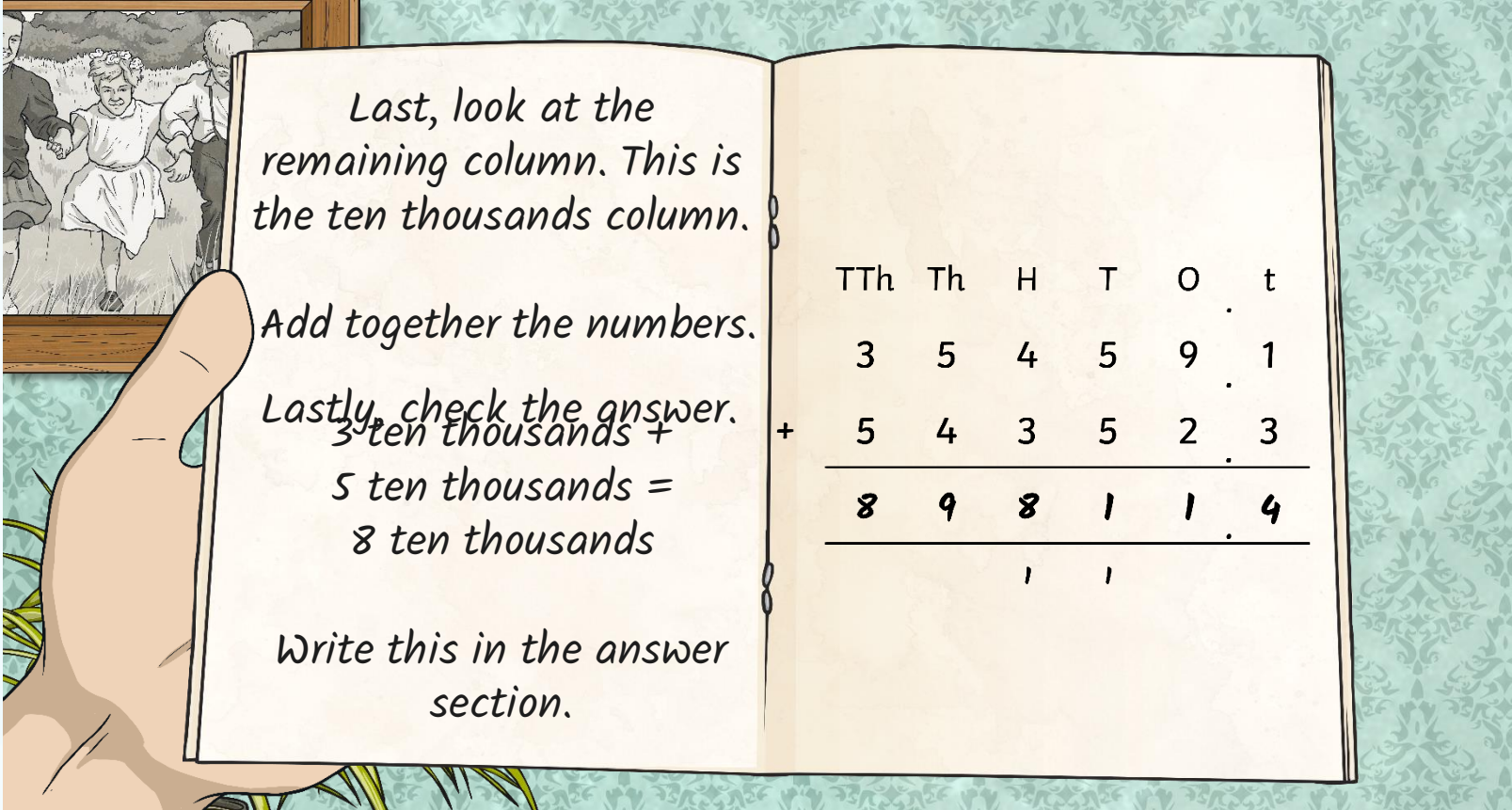
5 thousands +  
4 thousands = 9 thousands

Write this in the answer section.

TTh	Th	H	T	O	t
3	5	4	5	9	1
+	5	4	3	5	2
<hr/>					
	9	8	1	1	4
<hr/>					
		1	1		

# Building Blocks 1

$$35\,459.45954 + 352.35289 = 911.4$$



Last, look at the remaining column. This is the ten thousands column.

Add together the numbers.

Lastly, check the answer.

3 ten thousands +  
5 ten thousands =  
8 ten thousands

Write this in the answer section.

TTh	Th	H	T	O	t
3	5	4	5	9	1
5	4	3	5	2	3
<hr/>					
8	9	8	1	1	4
<hr/>					
		1	1		



# Building Blocks 1

$$35\,459.1 + 54\,352.3 = 89\,811.4$$

We can show this calculation using bar modelling.

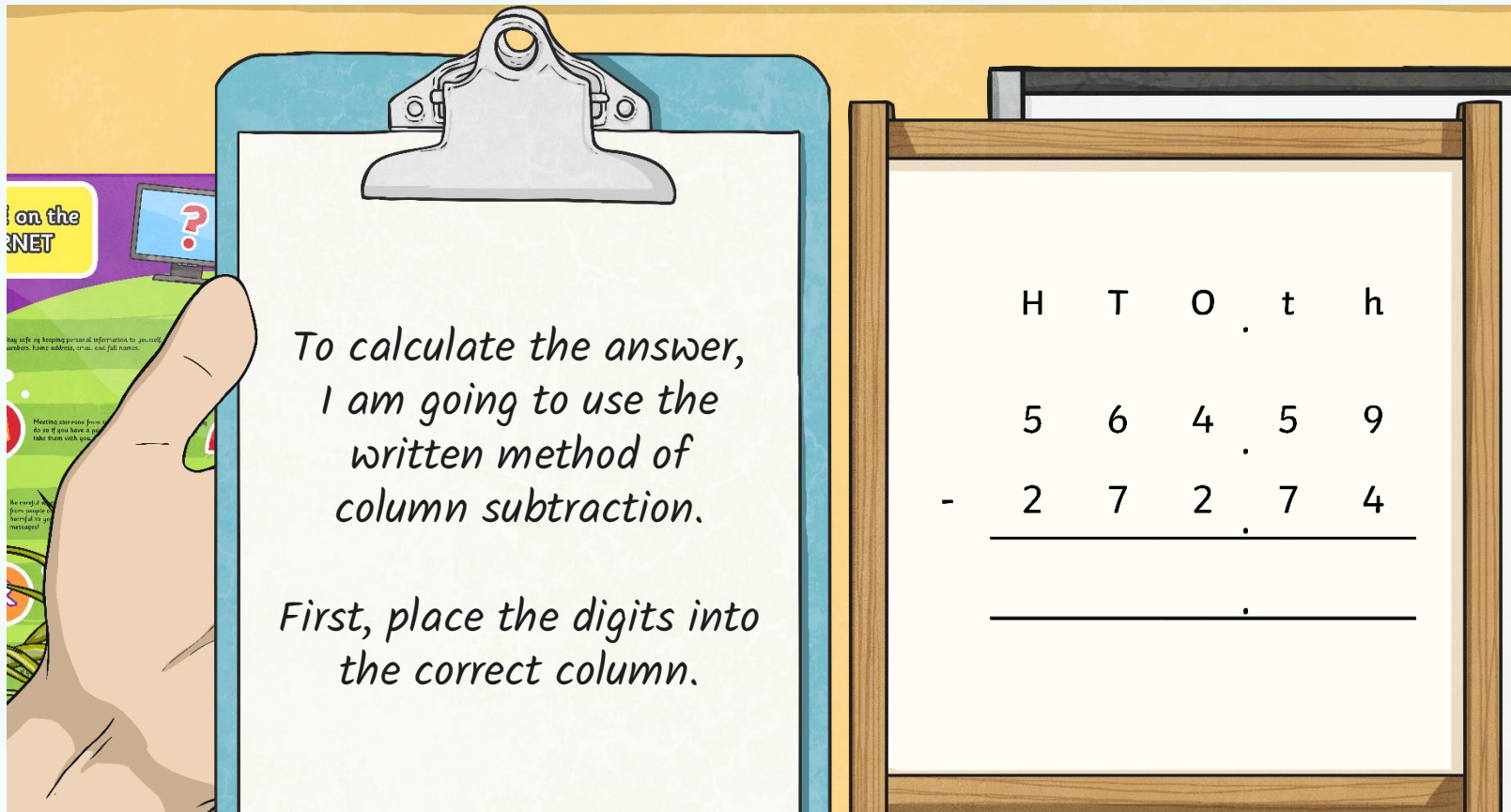
answer.

				0	.	t	
		4	5	9	.	1	
	+	5	4	3	5	2	3
<hr/>							
		8	9	8	1	1	4
<hr/>							
89811.4							
35 459.1				54 352.3			



# Building Blocks 1

Let's try a difference calculation.



*To calculate the answer, I am going to use the written method of column subtraction.*

*First, place the digits into the correct column.*

	H	T	O	t	h
	5	6	4	5	9
-	2	7	2	7	4
<hr/>					
<hr/>					

# Building Blocks 1

$$564.49 - 272.74 =$$

We start by subtracting from the column with the smallest value. This is the tenths column.

$$9 \text{ tenths} - 4 \text{ tenths} = 5 \text{ tenths}$$

Place the 4 tenths in the answer section.

	H	T	O	t	h
	5	6	4	5	9
-	2	7	2	7	4
<hr/>					
				5	
<hr/>					

# Building Blocks 1

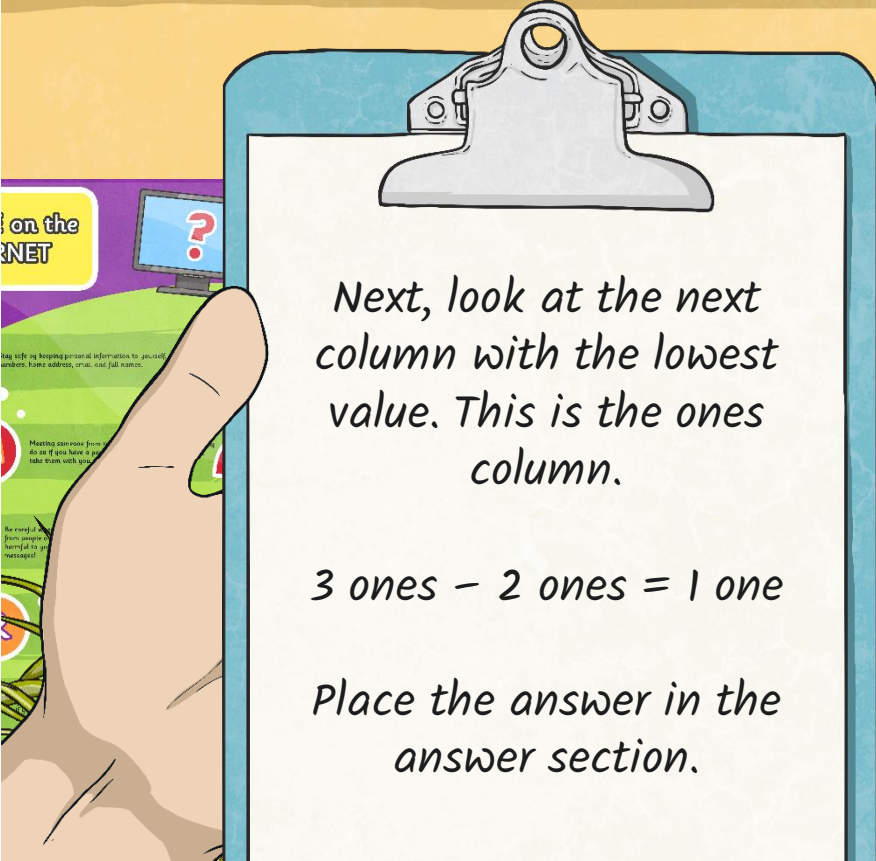
$$564.49 - 272.74 =$$

5 tenths - 7 tenths =  
 This cannot be done as 5 is less than 7. We need to extend, look at the ones column, borrow 1 from the ones column, the 10 tenths and reduce it to 9 tenths. Place the answer in the tenths column. There are now 15 tenths in the tenths column and 3 ones in the ones column.

	H	T	O	.	t	h
			3		1	
	5	6	<del>4</del>	.	5	9
-	2	7	2	.	7	4
				.	8	5

# Building Blocks 1

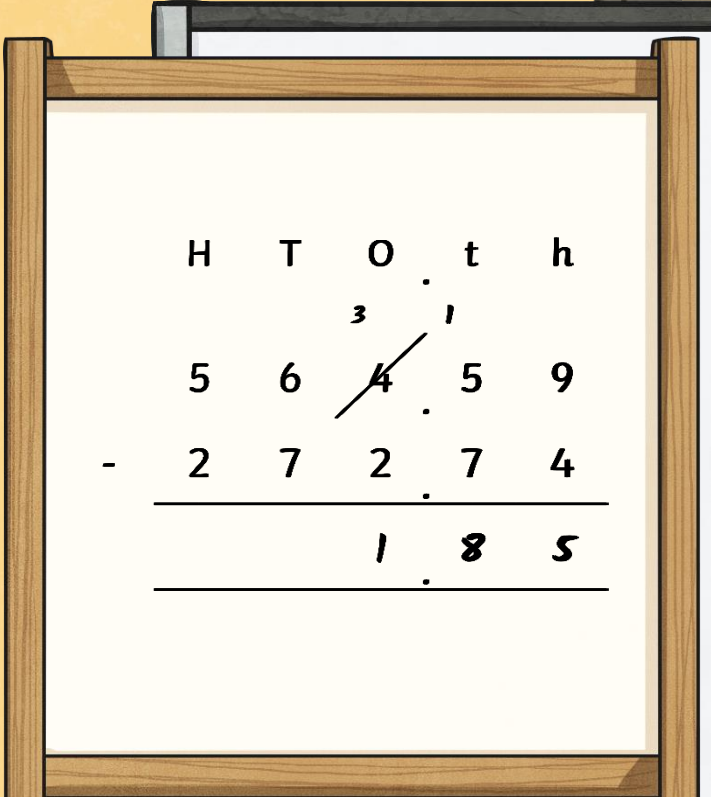
$$564.49 - 272.74 =$$



Next, look at the next column with the lowest value. This is the ones column.

$$3 \text{ ones} - 2 \text{ ones} = 1 \text{ one}$$

Place the answer in the answer section.

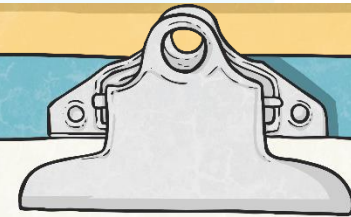


	H	T	O	.	t	h
			<sup>3</sup>		<sup>1</sup>	
	5	6	<del>4</del>	.	5	9
-	2	7	2	.	7	4
			1	.	8	5



# Building Blocks 1

$$564.49 - 272.74 =$$



6 tens - 7 tens =  
 This cannot be done as 6 is less than 7. We need to ~~exchange~~ ~~take~~ ~~hundreds~~ ~~from~~ ~~the~~ ~~hundreds~~ ~~column~~ ~~to~~ ~~the~~ ~~tens~~ ~~column~~ ~~to~~ ~~make~~ ~~10~~ ~~tens~~ ~~to~~ ~~do~~ ~~this~~ ~~and~~ ~~take~~ ~~one~~ ~~hundred~~ ~~from~~ ~~the~~ ~~hundreds~~ ~~column~~ ~~to~~ ~~the~~ ~~tens~~ ~~column~~. There are now 16 tens in the tens column and 4 hundreds in the hundreds column.

	H	T	O	t	h
	4	1	3	1	
	<del>5</del>	6	<del>4</del>	5	9
-	2	7	2	7	4
	9	1	8	5	

# Building Blocks 1

564569.4272712.7491.85

on the  
NET

May not request personal information to yourself  
answers, home address, email, and full names.

Meeting someone from  
do so if you have a positive  
take them with you.

We encourage you  
from anyone who  
harmful to you  
messages.

Last, look at the remaining column. This is the hundreds column.

4 hundreds - 2 hundreds  
= 2 hundreds

Place the answer in the answer section.

	H	T	O	t	h
	4	1	3	1	
	<del>5</del>	6	<del>4</del>	5	9
-	2	7	2	7	4
	2	9	1	8	5

# Building Blocks 1

$$564.49 - 272.74 = 291.85$$

We can show this calculation using bar modelling.

Last, look at the thousands column. The thousands column.

4 thousands - 2 thousands = 2 thousands

564.59	
272.74	291.85



# Building Blocks 2

Can you find value of the block missing from these calculations?

$$592\ 459 + 824\ 569 = 1\ 417\ 028$$

1 417 028

592 459

824 569



# Building Blocks 2

Can you find value of the block missing from these calculations?

$$693\ 382 - 59\ 395 = 633\ 987$$

693 382

633 987

59 395

# Building Blocks 2

Can you find value of the block missing from these calculations?

$$929\ 288 - 592\ 494 = 336\ 794$$

929 288

592 494

336 794

# Building Blocks 2

Can you find value of the block missing from these calculations?

$$589\,492.9 + 58\,284 = 647\,776.9$$

647 776.9

589 492.9

58 284



# Building Blocks 2

Can you find value of the block missing from these calculations?

$$39\ 897 + 93\ 395.3 = 139\ 292.3$$

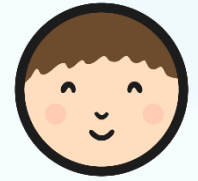
139 292.3

39 897

99 395.3



# Pyramid Puzzles



Use your marvellous maths skills to complete these activity sheets:

### Pyramid Puzzles

I can add and subtract numbers using a formal written method.

Sort the numbers below into the correct positions on the blank pyramid. Remember your calculations once completed. The first question has been completed for you.

1)

24 429.5	33 928.2	7344.4	53 858.8
29 429.3	7344.4	87 787	129 059.6

129 059.6	
87 787	41 272.6

53 858.8	33 928.2	7344.4
----------	----------	--------

24 429.5	29 429.3	4498.9
----------	----------	--------

2)

377 522.1	1 107 781.2	82 929.5	29 592.9
406 073.6	81 888.1	294 592.6	701 707.6


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3)

576 650.8	498 294.5	498 422.9	19 621.3
38 985.3	518 044.2	58 606.6	128.4


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### Pyramid Puzzles

I can add and subtract numbers using a formal written method.

Use addition and subtraction calculations to complete these pyramids. The first one has been done for you.

1)

1 993 280			
783 602		1 209 678	
265 251	518 351	691 327	

45 295	219 956	298 395
--------	---------	---------

2)

646 689			
1 268 576		590 295	
2 111 647		29 592	

2 111 647	223 184
-----------	---------

3)

469 593			
763 186		398 185	
1 161 371		104 592	

798 581	
---------	--

4)

2 495 580			
1 108 783		421 450	
295 835	391 498	29 952	965 347

295 835	391 498	29 952
---------	---------	--------

5)

59 294			
349 818		330 819	
680 637		40 295	

680 637	330 819	40 295
---------	---------	--------

### Pyramid Puzzles

I can add and subtract numbers using a formal written method.

Use addition and subtraction calculations to complete these pyramids. The first one has been done for you.

1)

12 845			
22 195		9350	
37 480	15 285	5935	

69 193	31 713	16 428	10 493
--------	--------	--------	--------

2)

104 782			
58 441		23 667	
15 392	19 382	22 674	18 389

15 392	19 382	18 389
--------	--------	--------

3)

112 572			
62 888		78 021	
22 946	39 942	28 337	9742

22 946	39 942	9742
--------	--------	------

4)

127 808			
85 554		35 788	
492	5974	49 766	19 952

492	5974	19 952
-----	------	--------

5)

37 527			
66 501		18 482	
111 896	28 974	16 421	5929

111 896	28 974	16 421	5929
---------	--------	--------	------

# Hard Hieroglyphs



Write a mathematical calculation using hieroglyphs that would provide the answer 811.

1      10      100

1,000      10,000      100,000      1,000,000

hint

# Hard Hieroglyphs



Write a mathematical calculation using hieroglyphs that would provide the answer 1009.

1      10      100

1,000      10,000      100,000      1,000,000

hint

The scroll displays the following hieroglyphs and their values:

- 1: A single vertical bar.
- 10: A U-shaped curve.
- 100: A spiral.
- 1,000: A lotus flower.
- 10,000: A lotus flower with a cross on top.
- 100,000: A frog.
- 1,000,000: A seated man with a staff.



# Hard Hieroglyphs



Write a mathematical calculation using hieroglyphs that would provide the answer 889.

hint

1,000      10,000      100,000      1,000,000

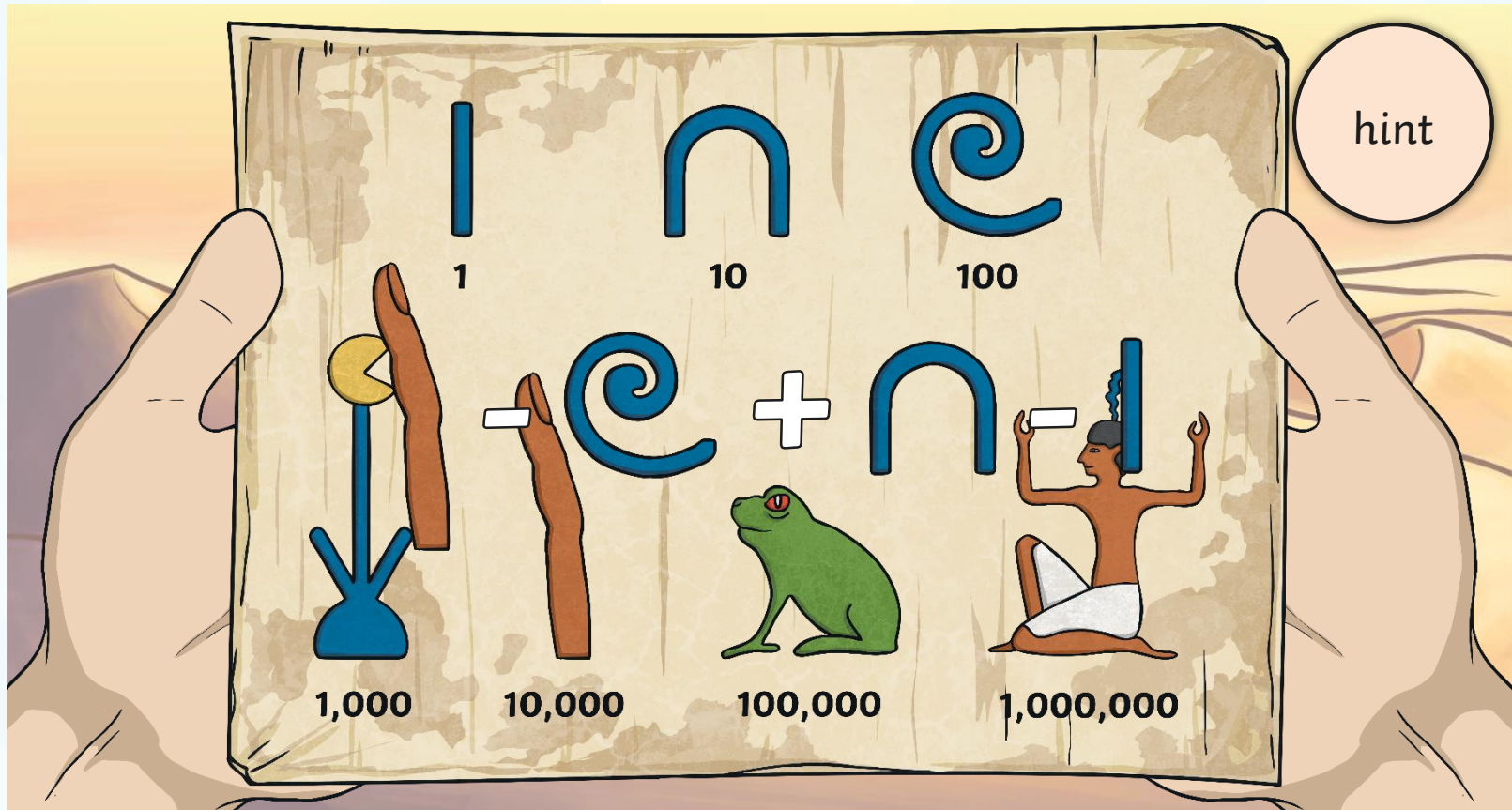
1      10      100



# Hard Hieroglyphs



Write a mathematical calculation using hieroglyphs that would provide the answer 9909.



# Aim



- I can add and subtract numbers using a formal written method.

# Success Criteria

- I can add and subtract numbers with decimals.
- I can add and subtract increasingly larger numbers.
- I can use a formal written method.

