### Maths Home Learning - White Rose

Week 10

There will be 5 Maths lessons.

This PowerPoint contains an overview of the week, **links** to the WhiteRose Hub website for video lessons, <u>the answers</u> from the work sheets and a description of different ways to **upload** your work.

There will also be extra challenges for each day.

### Maths Home Learning Tip!

If the links don't work when you click on them in the PowerPoint, copy and paste the link into your browser.

## Week 10 Overview

Monday - Subtract two 4-digit numbers (no exchange)

Tuesday - Subtract two 4-digit numbers (one exchange)

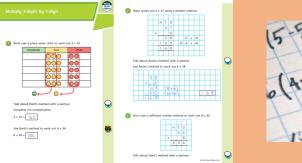
Wednesday - Subtract two 4-digit numbers (more than one exchange)

Thursday - Efficient Subtraction

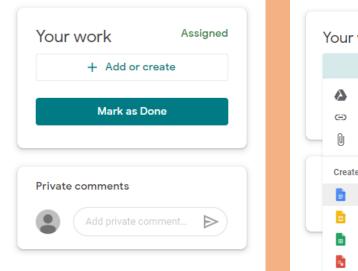
Friday - Challenges

### Ways to complete the activities

- 1. You can print the activity sheet, complete the work, take a photo and upload it under the Maths assignment.
- 2. You can leave the activity sheet on a screen, write your answers on a piece of paper, take a photo and upload it under the Maths assignment.
- 3. You can create a **Google Doc**, type your answers into it and submit the Google Doc under the Maths assignment.







Your	work	Assigned
	+ Add or create	
	Google Drive	
Θ	Link	
0	File	
Create	new	
	Docs	
	Slides	
	Sheets	
•	Drawings	

#### <u>Monday – Subtract two 4-digit numbers (no exchange)</u>

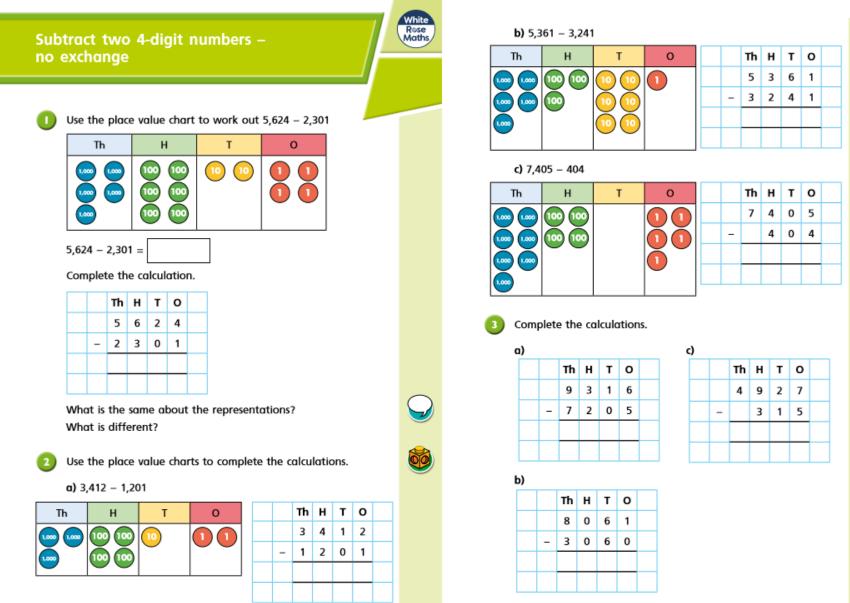
https://vimeo.com/427996624

Click the link, watch the video of the day and complete Sheet 1 and Sheet 2.

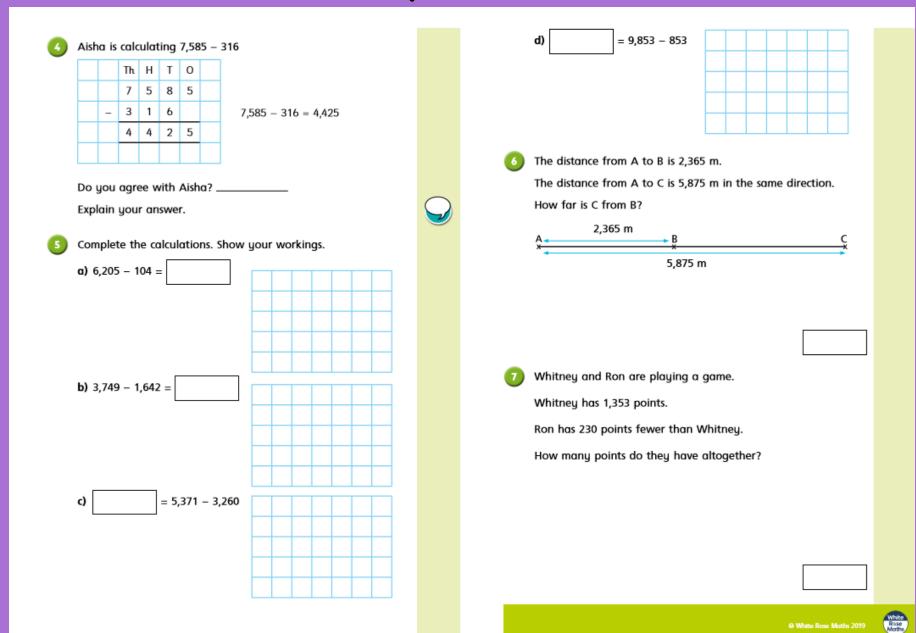
(You can then complete Monday Challenge if you want to do more maths.)

Remember to self mark or ask a sibling or parent to mark it.

#### Monday - Sheet 1



#### Monday - Sheet 2



# Monday Challenge

Eva uses place value counters to calculate 3,454 – 1,224

					Th	Н	Т	0
Th	н	Т	0		3	4	5	4
	ø	11		_	1	2	2	4

Use Eva's method to calculate:

$$2,348 - 235 = \_ = 4,572 - 2,341$$
  
 $6,582 - 582 = \_ = 7,262 - 7,151$ 

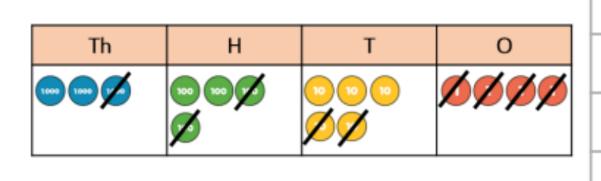
2

2

3

## Monday Challenge Answers

Eva uses place value counters to calculate 3,454 — 1,224



	Th	Н	Т	0
	3	4	5	4
_	1	2	2	4
	2	2	3	0

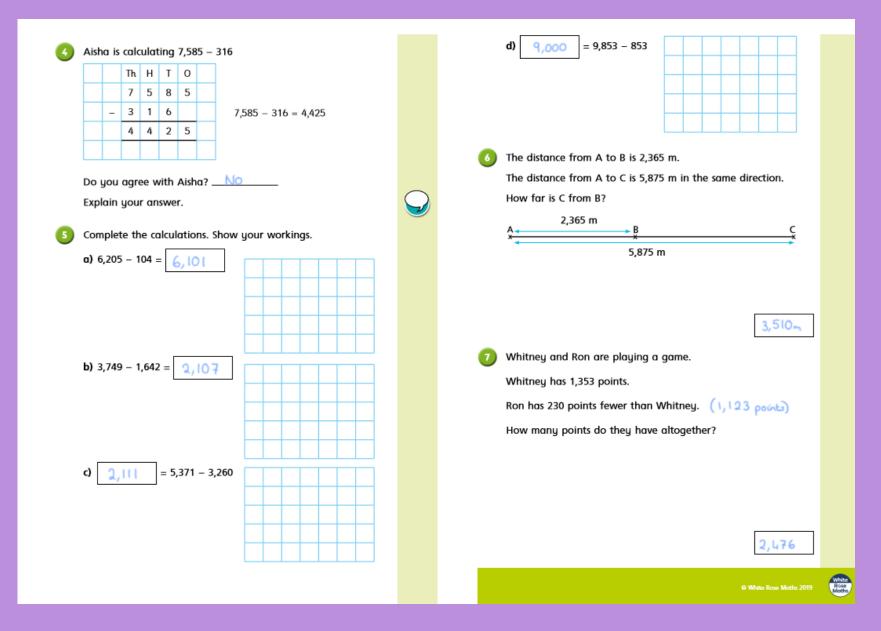
Use Eva's method to calculate:

 $2,348 - 235 = \frac{2,113}{6,582 - 582} = \frac{6,000}{111} = 7,262 - 7,151$ 

#### Monday - Answers

White Rese Maths b) 5,361 - 3,241 Subtract two 4-digit numbers no exchange Th н 0 Th H T O т 5 3 6 1 - 3 2 4 1 1,000 100 1,000 2 1 2 0 Use the place value chart to work out 5,624 - 2,301 1,000 Th н Т 0 100 c) 7,405 - 404 100 Ò 100 1,000 1,000 Th н Т 0 Th H T O 100 100 7 4 0 5 1,000 100 100 1.000 (1.000 100 100 \_ 4 0 4 1,000 1,000 5,624 - 2,301 = 3,3237001 1.000 1.000 Complete the calculation. 1,000 Th H T O 5 6 2 4 Complete the calculations. 3 - 2 3 0 1 a) c) 3 3 2 3 Th H T O Th H T O 4 9 2 7 9 3 1 6 What is the same about the representations? - 7 2 0 5 3 1 5 \_ What is different? 2 1 1 1 4612 0 Use the place value charts to complete the calculations. 2 b) a) 3,412 - 1,201 Th H T O Th H T O Th н Т 0 8 0 6 1 100 100 3 4 1 2 1,000  $(\mathbf{D})$ - 3 0 6 0 - 1 2 0 1 100 100 5 0 0 1 2211





#### <u>Tuesday - Subtract two 4-digit numbers (one</u> <u>exchange)</u>

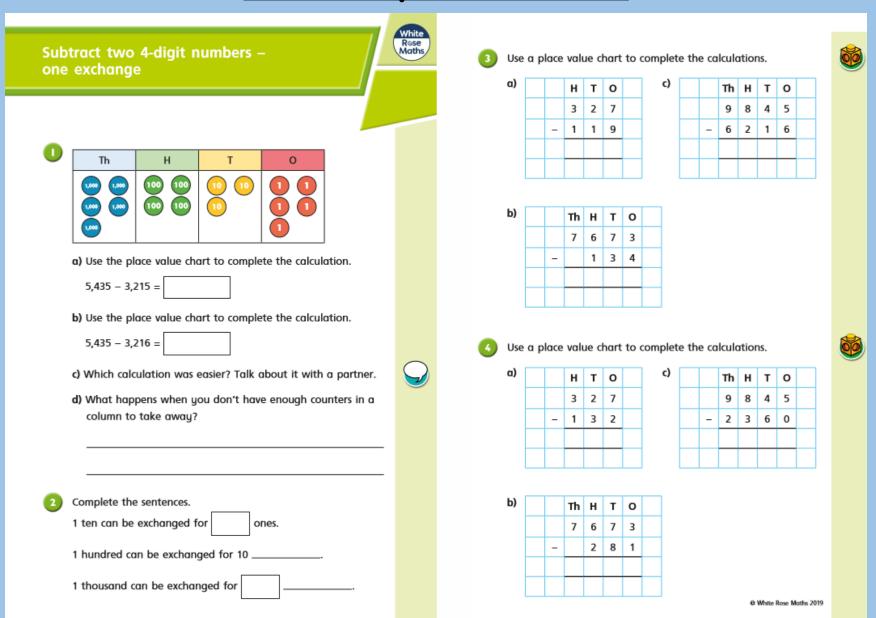
#### https://vimeo.com/428000196

Click the link, watch the video of the day and complete Sheet 1 and Sheet 2.

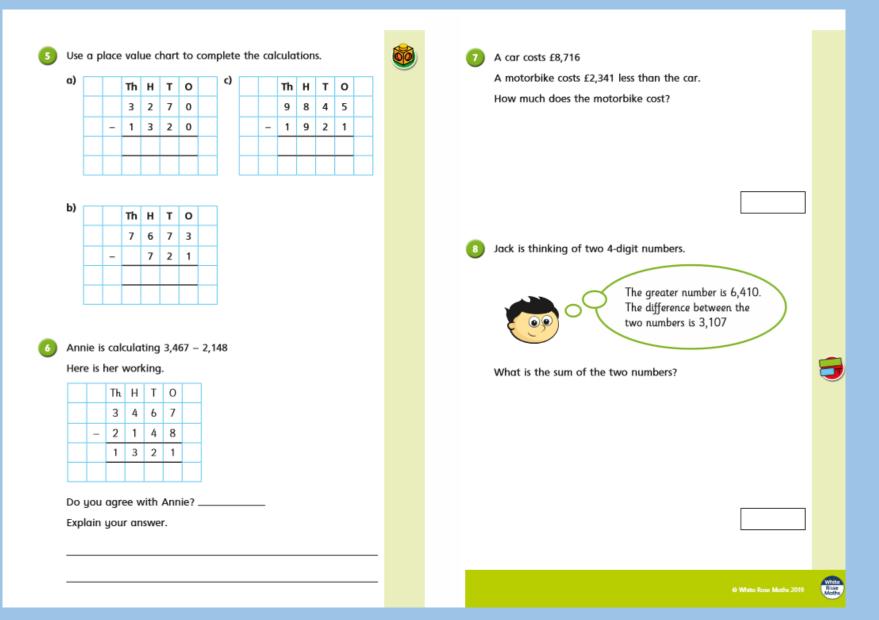
(You can then complete Tuesday challenge if you want to do more maths.)

Remember to self mark or ask a sibling or parent to mark it.

#### Tuesday - Sheet 1

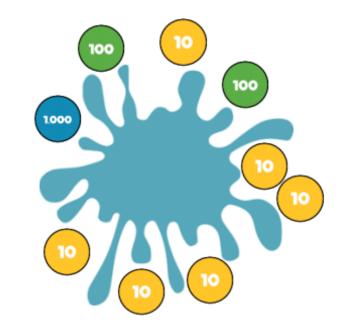


#### Tuesday - Sheet 2



## Tuesday Challenge

There are counters to the value of 3,470 on the table but some have been covered by the splat.



What is the total of the counters covered? How many different ways can you make the missing total?

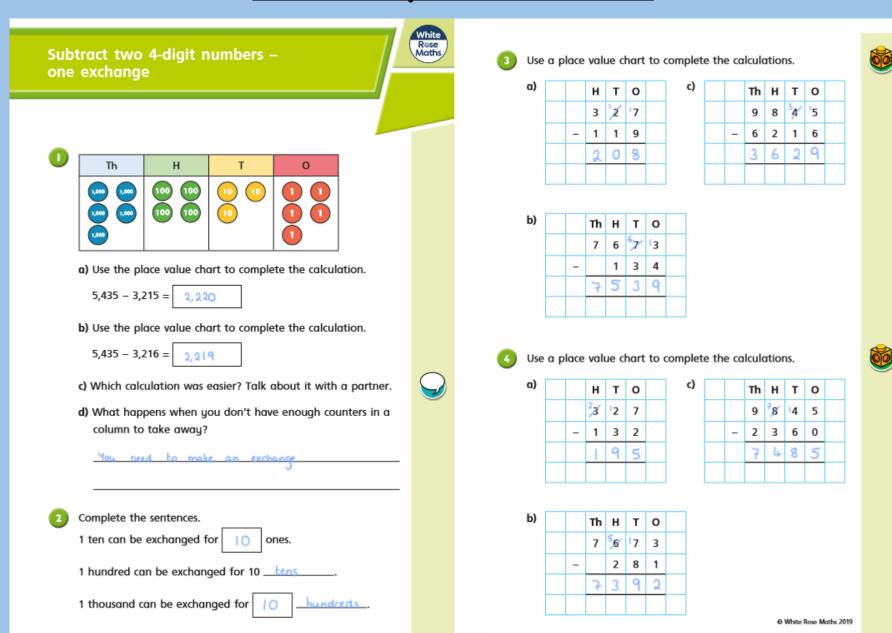
### Tuesday Challenge Answers

3470 – 1260 = 2210

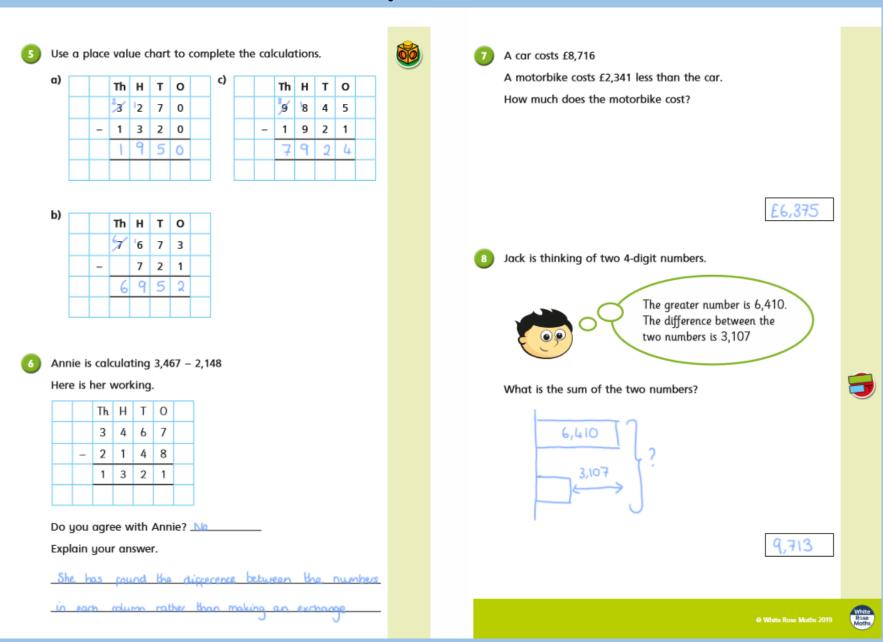
Possible answers include:

- two 1000s, two 100s and one 10
- twenty-two100s and one10
- twenty-two
  100s and ten
  1s

#### Tuesday - Answers



#### Tuesday - Answers



#### <u>Wednesday - Subtract two 4-digit numbers</u> (more than one exchange)

#### https://vimeo.com/428000367

Click the link, watch the video of the day and complete Sheet 1 and Sheet 2.

(You can then complete the Wednesday Challenge if you want to do more maths.)

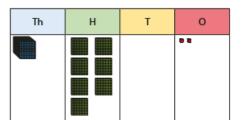
Remember to self mark or ask a sibling or parent to mark it.

#### Wednesday - Sheet 1

White Rese Maths

Subtract two 4-digit numbers – more than one exchange

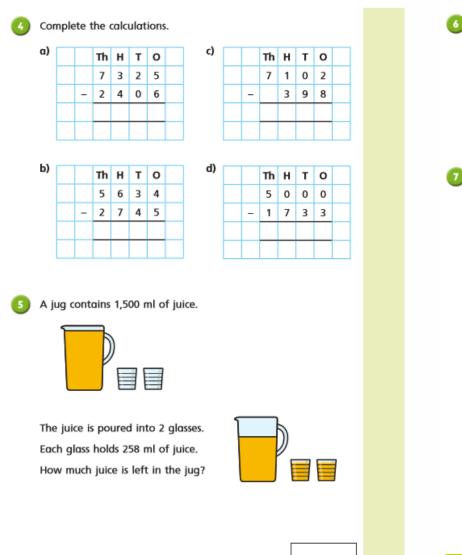




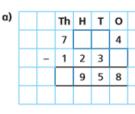
a) Subtract 8 from Kim's number.				
<b>b)</b> Explain the method you used.				
	_			
c) Subtract 20 from Kim's number.				
d) Subtract 900 from Kim's number.				
e) Complete the subtractions.				
1,702 - 28 = 1,702 - 928 =				

Use the place value chart to complete the subtractions. 2 н Т 0 (100 100 100 100 100 a) 564 - 354 = c) 564 - 365 = b) 564 - 355 = Look at your calculations in parts a), b) and c). What is the same? What is different? Use the place value chart to complete the subtractions. н Th Т 0 10 100 100 1,600 100 10 100 1,000 1,600 1,000 a) 5,435 - 2,036 = b) 5,436 - 2,036 = c) 5,437 - 2,036 = Look at your calculations in parts a), b) and c). What is the same? What is different?

### Wednesday - Sheet 2



Work out the missing digits.



Th H T O

9

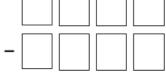
Arrange all the digit cards to make a possible subtraction for each description.

b)

0 1 2 3	4 5	6	7
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 a) There are 2 exchanges. The answer is

less than 2,000



b) There are 2 exchanges. The answer is greater than 4,000 c) There are 3 exchanges.



## Wednesday Challenge



1,235 people go on a school trip.

There are 1,179 children and 27 teachers. The rest are parents.

How many parents are there?

Explain your method to a friend.

### Wednesday Challenge Answer

Add children and teachers together first.

1,179 + 27 = 1,206

Subtract this from total number of people.

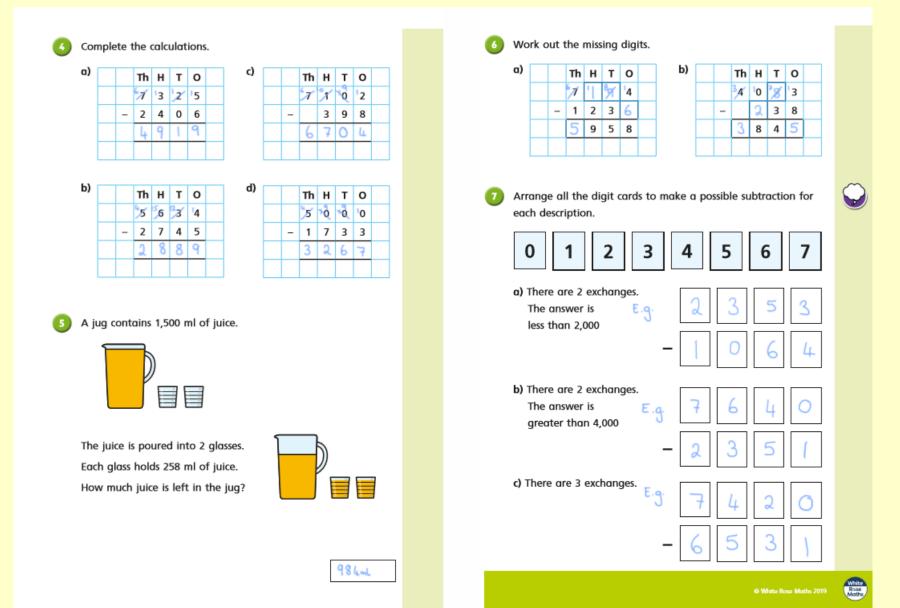
1,235 – 1,206 = 29

29 parents.

#### Wednesday - Answers

White Rese Maths Subtract two 4-digit numbers - more Use the place value chart to complete the subtractions. 2 than one exchange 0 н 100 100 100 100 60 Kim has made a number using base 10 100 0 Th н Т c) 564 - 365 = |99 a) 564 – 354 = 210 **b)** 564 – 355 = 209 Look at your calculations in parts a), b) and c). What is the same? What is different? a) Subtract 8 from Kim's number. Use the place value chart to complete the subtractions. н 0 Th Т 1,694 1,000 1,600 b) Explain the method you used. 1,000 1,600 100 Exchange I hundred for 10 tens then I ten 1,000 for 10 ones a) 5,435 - 2,036 = 3,399 1,682 c) Subtract 20 from Kim's number. **b)** 5,436 - 2,036 = 3,400 d) Subtract 900 from Kim's number. 802 c) 5,437 - 2,036 = 3,401 e) Complete the subtractions. Look at your calculations in parts a), b) and c). 1,702 - 928 = 774 1,702 - 28 = 1,674 What is the same? What is different?

#### Wednesday - Answers



#### **Thursday - Efficient Subtraction**

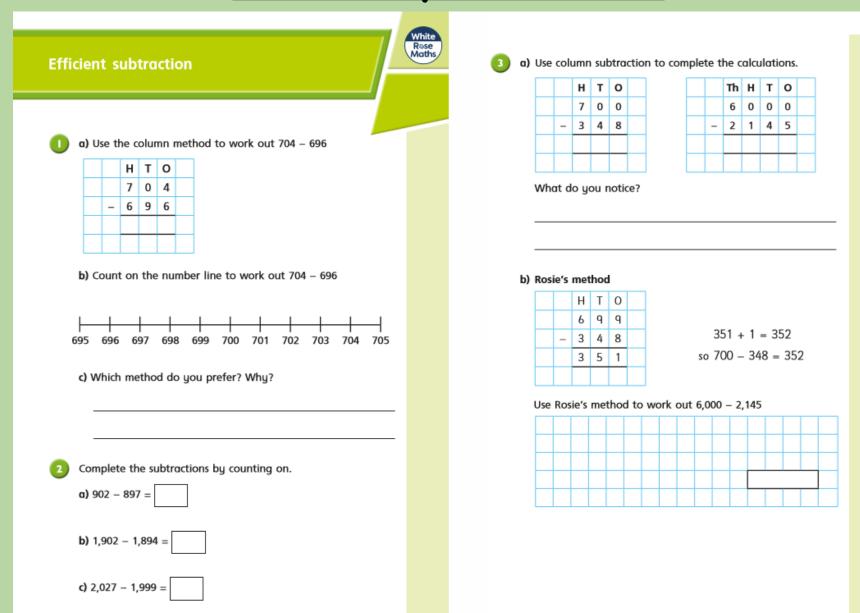
#### https://vimeo.com/428003455

Click the link, watch the video of the day and complete Sheet 1 and Sheet 2.

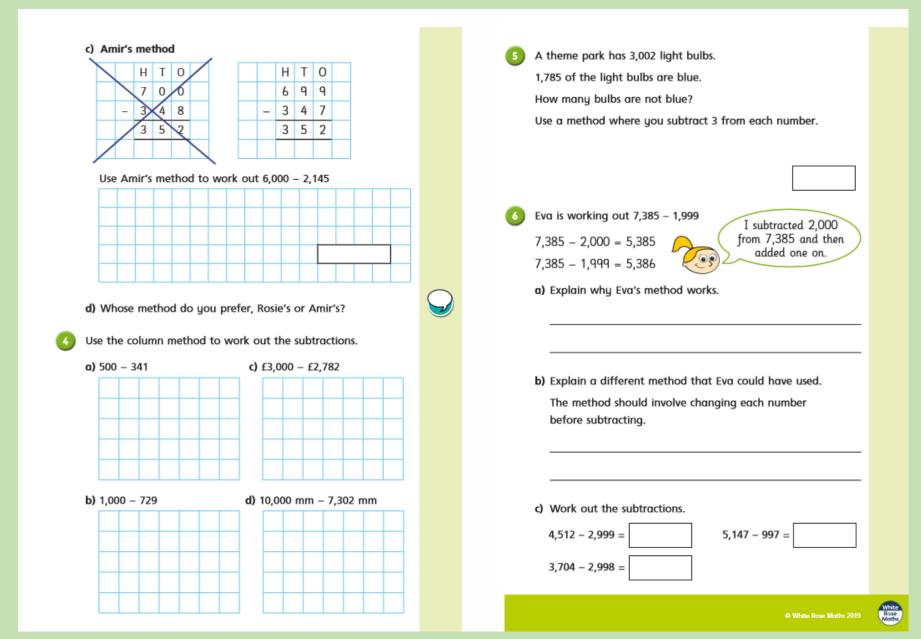
(You can then complete Thursday challenge, if you want to do more maths.)

Remember to self mark or ask a sibling or parent to mark it.

#### Thursday - Sheet 1



#### <u>Thursday - Sheet 2</u>



# Thursday Challenge

Amir has £1,000



He buys a scooter for  $\pounds 345$  and a skateboard for  $\pounds 110$ 

How much money does he have left?

Show 3 different methods of finding the answer.

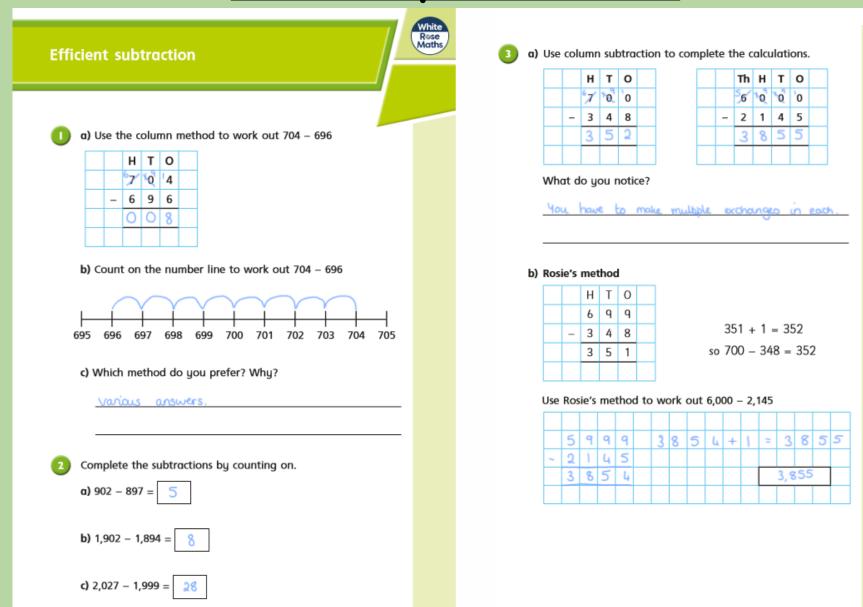
Explain how you completed each one.

Which is the most effective method?

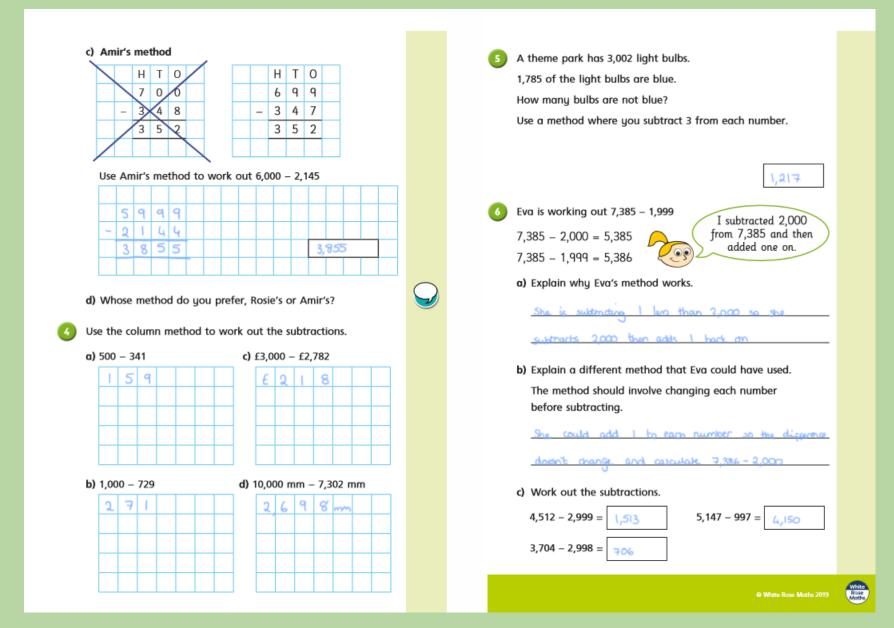
### Thursday Challenge Answer

Children should use the three methods demonstrated in the varied fluency section to get an answer of £545

#### Thursday - Answers



#### Thursday - Answers

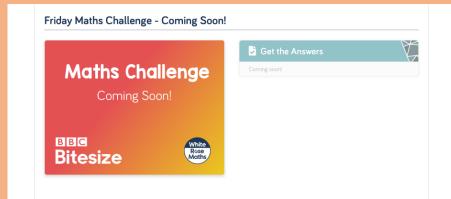


### Friday - Reasoning Challenges

https://whiterosemaths.com/homelearning/year-4/

Have a go at completing the White Rose Maths Challenge

#### The video should be under Summer Term - Week 9 (w/c 15<sup>th</sup> June)



## Friday Challenge - Extra

Look at each pair of calculations. Which one out of each pair has the same difference as 2,450 - 1,830?

2,451 — 1,831	2,451 — 1,829
2,500 — 1,880	2,500 — 1,780
2,449 — 1,829	2,449 — 1,831

-

When is it useful to use difference to solve subtractions?

### Friday Challenge Answer

2,451 - 1,831 Added one to each number. 2,500 - 1,880 Added 50 to both numbers. 2,449 - 1,829 Subtracted one from each number.

The difference is 620