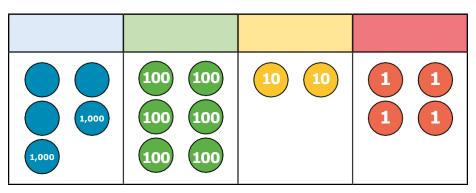
White Rose Maths

Subtract two 4-digit numbers - no exchange

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



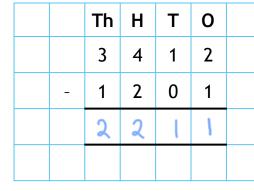
Complete the calculation.

	Th	Н	Т	0	
	5	6	2	4	
-	2	3	0	1	
	3	3	2	3	

What is the same about the representations? What is different?

Use the place value charts to complete the calculations.

Th	Н	Т	0
1,000	100 100	10	1 1







b) 5,361 - 3,241

					Th	Н	Т	0	
1,000 1,000	100 100	10 10	1		5	3	6	1	
1,000 1,000	100	10 10		-	3	2	4	1	
1,000		10 10			2	1	2	0	

c) 7,405 - 404

				Th
	100 100	1 1		7
	100 100	1 1	-	
1,000				7
1,000				

3 Complete the calculations.

а	1)						
			Th	Н	Т	0	
			9	3	1	6	
		-	7	2	0	5	
			2	1			

	Th	Н	Т	0
	4	9	2	7
-		3	1	5
	4	6	1	2

b)

	Th	Н	Т	0	
	8	0	6	1	
-	3	0	6	0	
	5	0	0	1	

0

T

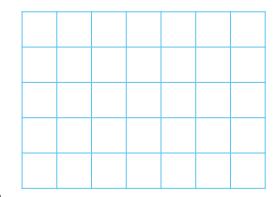
0

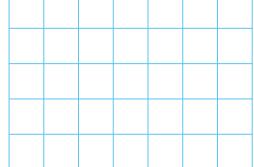
4 Aisha is calculating 7,585 - 316

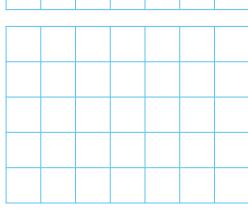
	Th	Н	Т	0	
	7	5	8	5	
_	3	1	6		
	4	4	2	5	

Do you agree with Aisha? No Explain your answer.

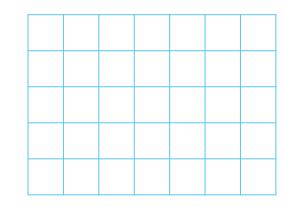
5 Complete the calculations. Show your workings.







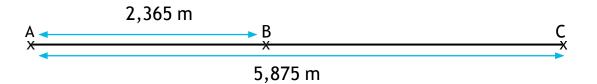
d)
$$9,000 = 9,853 - 853$$



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?



3,510m

7 Whitney and Ron are playing a game.

Whitney has 1,353 points.

Ron has 230 points fewer than Whitney. (1,123 points)

How many points do they have altogether?

2,476

Rose Maths

Subtract two 4-digit numbers one exchange



Th	Н	Т	0
1,000 1,000	100 100	10 10	1 1 1

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

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

- 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

Complete the sentences.

1 ten can be exchanged for ones.

1 hundred can be exchanged for 10_

1 thousand can be exchanged for hundreds



Use a place value chart to complete the calculations.

a)

	Н	Т	0	
	3	2	' 7	
_	1	1	9	
	2	0	8	

c)

	Th	Н	Т	0	
	9	8	34/	1 5	
_	6	2	1	6	
	3	6	2	9	

b)

	Т	h	Н	Т	0	
	7	7	6	67	13	
_	-		1	3	4	
		7	5	3	9	

Use a place value chart to complete the calculations.

	Н	Т	0	
	² 3′	12	7	
_	1	3	2	
	l	9	5	
		·	·	

c)

	Th	Н	Т	0	
	9	78′	۱4	5	
_	2	3	6	0	
	7	4	8	5	

b)

a)

	Th	Н	Т	0	
	7	56	17	3	
_		2	8	1	
	7	3	9	2	



5 Use a place value chart to complete the calculations.

a)

	Th	Н	Т	0	
	23	12	7	0	
_	1	3	2	0	
	١	9	5	0	

c)

	Th	Н	Т	0	
	⁸ 9′	8	4	5	
_	1	9	2	1	
	7	9	2	4	

b

)			Н	Т	0	
		67	' 6	7	3	
	_		7	2	1	
		6	9	5	2	

6 Annie is calculating 3,467 - 2,148

Here is her working.

	Th	Н	T	0	
	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.

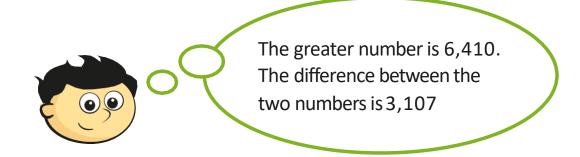
7 A car costs £8,716

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

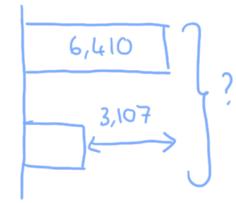
How much does the motorbike cost?

£6,375

8 Jack is thinking of two 4-digit numbers.



What is the sum of the two numbers?



9,713

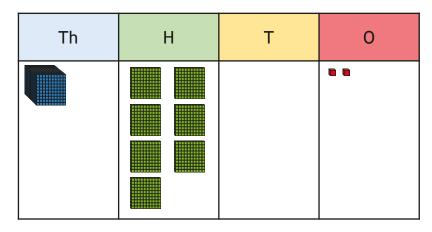


Year 4 - 17.06.20

White Rose Maths

Subtract two 4-digit numbers - more than one exchange

Kim has made a number using base 10



a) Subtract 8 from Kim's number.

1,694

b) Explain the method you used.

Exchange	1	hundred	For	10 te	ns then	1 ten
J						
for 10 on	es.					

c) Subtract 20 from Kim's number.

1,682

d) Subtract 900 from Kim's number.

802

e) Complete the subtractions.

2 Use the place value chart to complete the subtractions.

Н	Т	0		
100 100 100 100	10 10 10 10	1 1		

Look at your calculations in parts a), b) and c).

What is the same? What is different?



-	Γh	Н	Т	0
1,000	1,000	100 100	10 10	1 1 1

Look at your calculations in parts a), b) and c).

What is the same? What is different?



Complete the calculations.

a)

	Th	Н	Т	0	
	4	١3	12	¹ 5	
-	2	4	0	6	
	4	9	١	9	

c)

	Th	Н	T	0	
	7	1	10	12	
-		3	9	8	
	6	7	0	4	

b)		Th	Н	Т	0	
		⁴ 5	56	23	¹ 4	
	-	2	7	4	5	
		2	8	8	9	

d)

	Th	Н	Т	0	
	¹ 5	Ŋ	10	10	
-	1	7	3	3	
	3	2	6	7	

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?



984mL

Work out the missing digits.

a)

	Th	Н	Т	0	
	67	1	89	14	
-	1	2	3	6	
	5	9	5	8	

b)

		Th	Н	Т	0	
		3/4	10	78	١3	
	-		2	3	8	
		3	8	4	5	

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

















a) There are 2 exchanges. The answer is E.g.

less than 2,000















b) There are 2 exchanges.

The answer is greater than 4,000















c) There are 3 exchanges.





















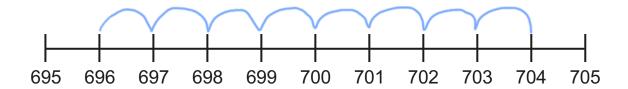
White Rose Maths

Efficient subtraction

a) Use the column method to work out 704 – 696

	Н	Т	0	
	⁶ 7	1Q	¹ 4	
_	6	9	6	
	0	0	8	

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



c) Which method do you prefer? Why?

Various answers.

Complete the subtractions by counting on.

a) Use column subtraction to complete the calculations.

	Н	Т	0	
	⁶ 7′	†Q9	0	
_	3	4	8	
	3	5	2	

	Th	Н	Т	0	
	56	109	¹ O ⁴	0	
_	2	1	4	5	
	3	8	5	5	

What do you notice?

You have to make multiple exchanges in each.

b) Rosie's method

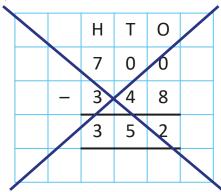
	Н	Т	0	
	6	9	9	
-	3	4	8	
	3	5	1	

so
$$700 - 348 = 352$$

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



c) Amir's method



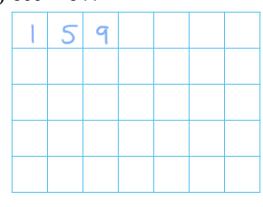
	Н	Т	0	
	6	9	9	
_	3	4	7	
	3	5	2	

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

5	9	9	9							
- 0	1	L	L,							
2	8	5	5				3	85E	5	
-							٥,			

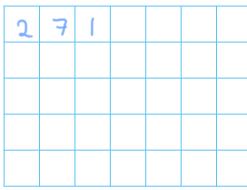
- d) Whose method do you prefer, Rosie's or Amir's?
- 4 Use the column method to work out the subtractions.

a) 500 - 341



£	2	(8		

b) 1,000 - 729





A theme park has 3,002 light bulbs.

1,785 of the light bulbs are blue.

How many bulbs are not blue?

Use a method where you subtract 3 from each number.

1,217

6 Eva is working out 7,385 – 1,999



I subtracted 2,000 from 7,385 and then added one on.

a) Explain why Eva's method works.

b) Explain a different method that Eva could have used. The method should involve changing each number before subtracting.

c) Work out the subtractions.