



Videos to further explain each of the methods used in the following lessons can be found at:

https://whiterosemaths.com/homelearning/year-5/week-4/

Date	
Subject/s	Maths
Learning Objective	- - - - - - - - - -
	To recall and use multiplication and division facts

1	9 X 7	30	6 x 9	59	9 X 4	
2	8 x 4	31	12 x 3	60	7 x 6	
3	7 x 10	32	3 x 8	61	4 x 8	
4	9 x 9	33	8 X 8	62	12 X 2	
5	6 x 2	34	6 x 8	63	3 x 6	
6	4 x 7	35	11 x 7	64	4 x 10	
7	9 X 2	36	10 x 1	65	9 x 11	
8	12 x 12	37	10 x 5	66	3 x 12	
9	5 X 9	38	3 x 5	67	3 x 10	
10	7 X 7	39	12 x 11	68	4 X 4	
11	11 x 6	40	6 x 6	69	4 x 9	
12	5 x 11	41	2 x 9	70	4 x 11	
13	4 x 6	42	12 x 7	71	6 x 5	
14	9 x 5	43	11 x 8	72	7 x 2	
15	8 X 12	44	2 x 6	73	5 x 12	
16	10 x 10	45	4 x 5	74	2 x 10	
17	7 x 3	46	4 x 9	75	4 x 12	
18	5 x 8	47	8 x 2	76	7 x 8	
19	3 x 3	48	7 x 9	77	6 x 10	
20	10 x 11	49	12 x 8	78	12 x 6	
21	11 x 2	50	9 X 4	79	7 x 12	
22	2 x 7	51	5 X 5	80	2 X 2	
23	6 x 12	52	10 x 12	81	11 x 0	
24	5 x 7	53	8 x 11	82	2 x 12	
25	10 x 6	54	4 x 3	83	2 X 4	
26	9 x 12	55	2 x 5	84	8 x 5	
27	5 x 4	56	5 x 10	85	7 x 11	
28	11 x 11	57	9 x 3	86	9 x 6	
29	7 x 4	58	8 x 10	87	10 x 11	

H		Steps to Success
	Date	
	Subject/s	Maths
	Learning Objective	To subtract numbers with four or more digits

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<u>Teacher Led</u>

Here you can see a column subtraction shown alongside place value counters.

Remember to start from the ones. You can see it recorded in the column method and the place value counters crossed out to show the subtractions of the ones and the tens.

Now look at the hundreds column—it is showing one hundred subtract five hundred. We can't do this, so we need to exchange.

We can exchange one thousand for ten hundreds because 1 thousand = 10 hundreds.

On the column method, this is shown by changing 4 thousands to 3 thousands and exchanging this on to show 11 hundreds.

Now we can complete the subtraction.

It is important to remember that

1 ten = ten ones

1 hundred = 10 tens

1 thousand = 10 hundreds.

As we move to the left, the digits get ten times bigger.



	Th	н	т	0
	4	1	5	4
•	1	5	2	2



	Th	Н	т	0
	4	1	5	4
-	1	5	2	2
			3	2



	Th	Н	Т	0
	³ ∦∕	¹ 1	5	4
-	1	5	2	2
			3	2



	Th	н	т	0
	³ ∦∕	¹ 1	5	4
-	1	5	2	2
	2	6	3	2

<u>Fluency</u>

Use the squared paper on the next pages to work out these:

1	7894 - 3918	2	7425 - 6773	3	9882 - 6443	4	6746 -5816
5	6873 - 5175	6	7043 - 5878	7	7861 - 7200	8	9803 - 1985

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Fluency—answers

question	
1	3976
2	652
3	3439
4	930
5	1698
6	1165
7	661
8	7818
9	2018
10	4272
11	1190
12	379

P	Problem Solving and Reasoning	
Use it!	There were 2,114 visitors to the museum on Saturday. 650 more people visited the museum on Saturday than on Sunday.	
	Altogether how many people visited the museum over the two days?	
	this problem?	
Use it!	Find the missing numbers that could go into the spaces.	
	Give reasons for your answers.	
	What is the greatest number that could go in the first space?	
	What is the smallest?	
	How many possible answers could you have?	
	What is the pattern between the numbers?	
	What method did you use?	

	Problem Solving	and Reasoning - Answers
U	se it!	
-	First you need to	
C	find the number of	
	visitors on Sunday	
	which is 2.114 - 650 -	
	2,114 - 050 -	
	1,404	
	Then you need to	
	add Saturday's	
	visitors to that	
	number to solve	
	the problem.	
	1,464 + 2,114 =	
	3,578	
	Possible answers:	
	1,751 and 0	
	1,761 and 10	
	1,771 and 20	
	1,781 and 30	
	1,791 and 40	
	1,001 and 50	
	1,871 and 70	
	1831 and 80	
	1.841 and 90	
	1,841 is the	
1	greatest	
	1,751 is the	
1	smallest.	
	There are 10	
	possible answers.	
	increase by 10	
	increase by 10	

Rank by difficulty

2001 - 48

130 - 48

1999 - 48

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Date			
Subject/s	Maths		
Learning Objective	To subtract numbers with four or more digits continued	ł	
		SA O SA	TA
Success Criteria	I can use place value columns to set out calculation		
✓! 📃	I understand when to exchange		
	I can use number bonds to subtract efficiently		
Support	Independent Adult Support () Group Work		



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<u>Teacher Led</u>

Look at this example.

In the ones we can see 2-9. We can't do this, so we need to exchange. However, there is nothing in the tens column to exchange with. What should we do?

First we need to exchange 1 hundred for 10 ens. You can see this on the column method and the place value counters.

Now we can exchange 1 ten for 10 ones.

Now we can complete the subtraction

 Complete these subtraction calculations. You may want to use place value counters to help you.



α)
5
1
3
4
1
5
3
2

b)		9	0	5	4
	-	5	6	7	1

c)

	3	4	0	2	3
-		8	7	1	8

- d) 52064 25934
- e) 86 807 32 653
- 2) Here are the flight times, in seconds, for each flying team.



- a) Which teams have a time difference of 3101?
- b) Which two teams have the greatest time difference? How about the smallest time difference? Prove it!

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Fluency-Answers

- 1) a) 3602
 - b) 3383
 - c) 25305
 - d) 26 130
 - c) 54154
- 2) a) High Fliers and Fantastic French
 - b) Sea Beast and The Conjurers (10 464). Number One and Fantastic French (1838). Look for children who explain their reasoning about number selection, e.g. taking the largest and smallest numbers to find the greatest difference and the two closest numbers for the smallest difference, rather than trying every combination of numbers to find the correct answer.



Problem Solving and Reasoning

Rana has been practising the column method but she has made some mistakes. Can you identify all the mistakes and explain what she has done wrong?

Complete the calculation yourself to show the correct workings.

α)		3	እ 1	¹ 5	6	1
	-		1	6	3	5
		3	0	9	3	4

b)		8	4	2	8	4
	-	5	2	6	5	3
		3	2	6	3	1

Is this statement always, sometimes or never true? Explain your thinking.

'If you find the difference between two consecutive numbers, the answer will be an even number.'

Prove it!

Use it!

	Th	Н	Т	0
	?	?	?	?
+	4	6	7	8
	7	4	3	1



	Problem Solving and Reasoning Answers				
3	X 1 ¹ 5	5 6	1		
-	1 6	5 3	5 Rana has done 5 - I rather than doing I - 5 and exchanging.		
3	0 9	3 (The correct answer is 30 926.		
8	4 2	8	4 Roma has not recorded the exchange of taking I they cand		
- 5	2 6	5 5	3 from 4 thousands to create 10 hundreds, which would leave		
3	2 6	5 3	The correct answer is 31 631.		
odd – even even – od 2753	n = odd d = odd				

Investigate



Stage 1: complete using digits 0-9 Stage 2: complete with the units digit of the first number smaller than the units digit of the second number