

Reasoning and Problem Solving

Step 5: Subtract Two 4-Digit Numbers 1

National Curriculum Objectives:

Mathematics Year 4: (4C2) [Add and subtract numbers with up to 4-Digits using the formal written methods of columnar addition and subtraction where appropriate](#)

Differentiation:

Questions 1, 4 and 7 (Reasoning)

Developing Explain if the answer shown is correct. Use of place value grids with pictorial support. No use of zero as a place holder.

Expected Explain if the answer shown is correct. Use of place value grids with digits. Some use of zero as a place holder.

Greater Depth Explain if the answer shown is correct. No pictorial support. Use of zero as a place holder.

Questions 2, 5 and 8 (Problem Solving)

Developing Use counters and digits to complete the subtraction with restriction given. Pictorial support given with place value grids. No use of zero as a place holder.

Expected Use digits to complete the subtraction with restrictions given. Calculations presented in column format. Some use of zero as a place holder.

Greater Depth Use digits to complete the subtraction with restrictions given. Calculations presented in column format. Use of zero as a place holder.

Questions 3, 6 and 9 (Reasoning)

Developing Explain the mistake in the calculation. Pictorial support given with place value grids. No use of zero as a place holder.

Expected Explain the mistake in the calculation. Calculations presented in column format. Some use of zero as a place holder.

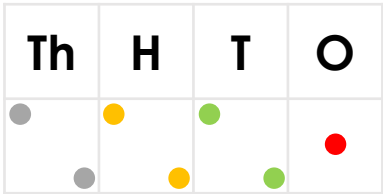
Greater Depth Explain the mistakes in the calculation. Calculations presented as part whole models. Use of zero as a place holder.

More [Year 4 Addition and Subtraction](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Subtract Two 4-Digit Numbers 1

1a. Harry has subtracted 5,231 from 7,462. He has put counters into the place value chart to show his answer.



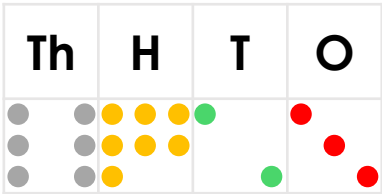
Is he correct? Explain why.



R

Subtract Two 4-Digit Numbers 1

1b. Zoe has subtracted 3,236 from 9,549. She has put counters into the place value chart to show her answer.

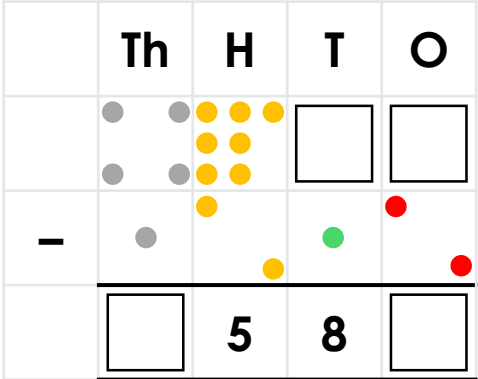


Is she correct? Explain why.



R

2a. Use counters and digits to complete the calculation below.

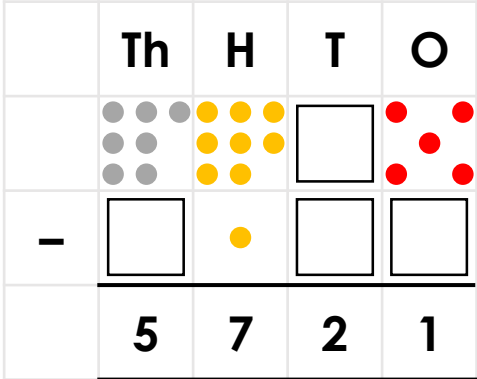


Your numbers must be odd.



PS

2b. Use counters and digits to complete the calculation below.

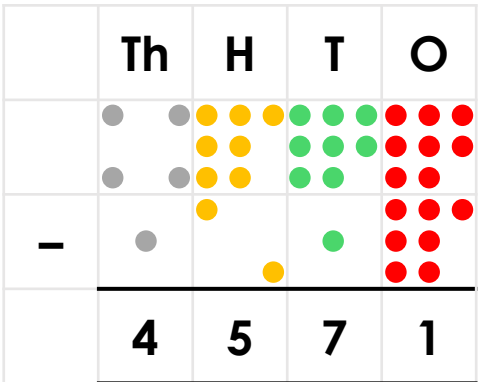


Your numbers must be even.



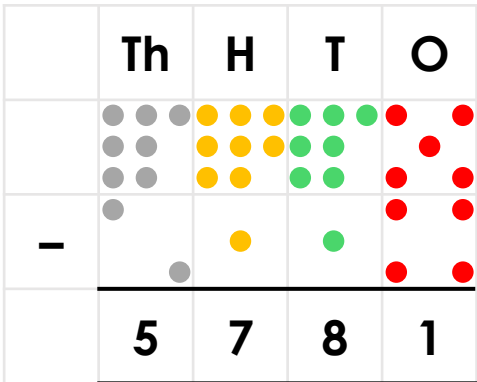
PS

3a. Explain the mistake in the calculation below.



R

3b. Explain the mistake in the calculation below.



R

Subtract Two 4-Digit Numbers 1

4a. Peter has subtracted 1,053 from 3,675. He has put the numbers into the place value chart to show his answer.

Th	H	T	O
3	6	2	2

Is he correct? Explain why.



R

Subtract Two 4-Digit Numbers 1

4b. Rochelle has subtracted 4,501 from 7,593. She has put counters into the place value chart to show her answer.

Th	H	T	O
3	5	9	2

Is she correct? Explain why.



R

5a. Complete the calculation below.

	Th	H	T	O
	9	7		
-			2	3
	9			0

You must include 6 and 9.



PS

5b. Complete the calculation below.

	Th	H	T	O
	6	9	7	
-		0		
	5	9	4	

You must include 7 and 8.



PS

6a. Explain the mistake in the calculation below.

	Th	H	T	O
	6	7	9	1
-		3	1	0
	6	4	8	0



R

6b. Explain the mistake in the calculation below.

	Th	H	T	O
	7	8	1	5
-	2	1	0	4
	9	7	1	1



R

Subtract Two 4-Digit Numbers 1

Subtract Two 4-Digit Numbers 1

7a. Henry has subtracted 4,140 from 5,175. His answer is shown below.

1,230

Is he correct? Explain why.



R

7b. Xin has subtracted 2,342 from 6,843. His answer is shown below.

4,541

Is she correct? Explain why.



R

8a. Complete the calculation below.

	Th	H	T	O
	5			
-		6		4
	5		2	

You must use 3 and 7. The rest of the numbers must be odd.



PS

8b. Complete the calculation below.

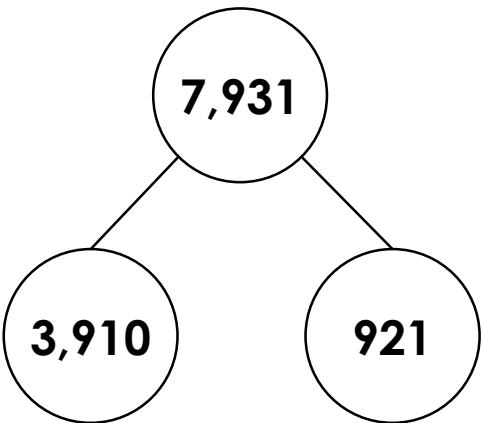
	Th	H	T	O
	9	8	8	
-		0		
		8	0	

You must use 5 and 2. The rest of the numbers must be even.



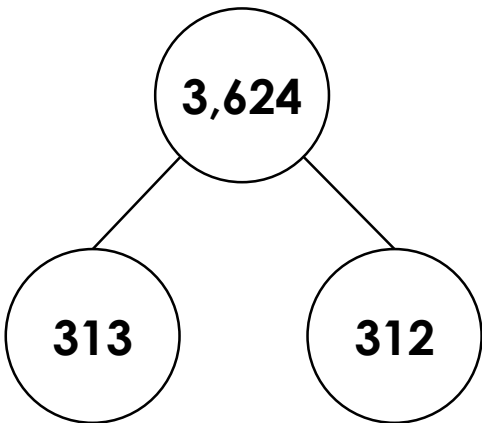
PS

9a. Explain the mistakes in the calculation below.



R

9b. Explain the mistakes in the calculation below.



R

Reasoning and Problem Solving Subtract Two 4-Digit Numbers 1

Developing

1a. Harry is incorrect. He has subtracted the tens column incorrectly. The answer should be 2,231.

2a. Possible answers:

$$4,799 - 1,212 = \underline{3587}; 4,797 - 1,212 = \underline{3,585};$$

$$4,795 - 1,212 = \underline{3,583}; 4,793 - 1,212 = \underline{3,581}$$

3a. The thousands column is incorrect.

1,000 has not been subtracted from 4,000. The answer should be 3,571.

Expected

4a. Peter is incorrect. He has subtracted the thousands column incorrectly. The answer should be 2,622.

5a. Possible answers:

$$9,793 - 623 = 9,170; 9,793 - 123 = 9,670$$

6a. The ones column is incorrect. $1 - 0 = 1$, not 0. The answer should be 6,481.

Greater Depth

7a. Henry is incorrect. He has subtracted the hundreds and ones columns incorrectly. The answer should be 1,035.

8a. Various answers, for example:

$$5,735 - 614 = 5,121; 5,777 - 654 = 5,123;$$

$$5,797 - 674 = 5,123; 5,979 - 654 = 5,325$$

9a. Various answers, for example:

921 is incorrect. It should be 4,021. This can be seen if the numbers are rounded to the nearest thousand. $8,000 - 4,000 = 4,000$ so the remaining number should be close to 4,000.

Reasoning and Problem Solving Subtract Two 4-Digit Numbers 1

Developing

1b. Zoe is incorrect. She has added the hundreds column instead of subtracting and has subtracted the tens column incorrectly. The answer should be 6,313.

2b. Possible answers:

$$7,885 - 2,164 = 5,721; 7,865 - 2,144 = 5,721;$$

$$7,845 - 2,124 = 5,721; 7,825 - 2,104 = 5,721$$

3b. The tens column is incorrect. It has been added instead of being subtracted. The answer should be 5,761.

Expected

4b. Rochelle is incorrect. She has forgotten to subtract the hundreds column. The answer should be 3,092.

5b. Possible answers:

$$6,978 - 1,037 = 5,941; 6,978 - 1,031 = 5,947$$

6b. The thousands column is incorrect. It has been added instead of being subtracted. The answer should be 5,711.

Greater Depth

7b. Xin is incorrect. She has forgotten to subtract the tens column. The answer should be 4,501.

8b. Possible answers:

$$9,882 - 4,082 = 5,800; 9,882 - 5,080 = 4,802$$

9b. Various answers, for example:

312 is incorrect. It should be 3,311. This can be seen if the numbers are rounded to the nearest hundred. $3,600 - 300 = 3,300$ so the remaining number should be close to 3,300.