

Discussion Problems

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](#)

About this resource:

This resource has been designed for pupils who understand the concepts within [this step](#). It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

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

1. Chloe is given a starting number of 7,968. She rolls four dice and gets the numbers 1, 2, 3 and 6. She arranges them to make different 4-digit numbers which she subtracts from her starting number. The grid shows four of the numbers she created after completing her subtractions.



What subtractions did she complete?

6 , 6 	 3 2	1 ,  5	 3 4 
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DP

2. Timmy has been given a challenge by his sister. She gives him the digit cards below which he must use to make 4-digit numbers to subtract from 8,977.



When he has completed his subtractions, each of his answers needs to fit one of these rules:

1. It is less than 8,000 and odd.
2. The thousands digit is the same as the ones digit.
3. The total of all four digits is 16.
4. It is a multiple of 5.

DP

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What subtractions did she complete?

6 , 6	3 2	1 , 5	3 4
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Various answers, for example:

$$7,968 - 1,362 = 6,606$$

$$7,968 - 6,213 = 1,755$$

$$7,968 - 2,136 = 5,832$$

$$7,968 - 3,621 = 4,347$$

DP

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1. It is less than 8,000 and odd.
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4. It is a multiple of 5.

Various answers, for example:

$$8,977 - 1,234 = 7,743$$

$$8,977 - 4,236 = 4,741$$

$$8,977 - 5,124 = 3,853$$

$$8,977 - 6,152 = 2,825$$

DP