Homework
Subtract Two 4-Digit Numbers – One Exchange

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 (Varied Fluency)
Developing Subtract two 4-digit numbers with up to one exchange to identify the smallest answer. Calculations are presented in place value grids with pictorial support. No use of zero as a place holder.
Expected Subtract two 4-digit numbers with one exchange to identify the smallest answer. Calculations are presented in place value grids using the column format. Some use of zero as a place holder.
Greater Depth Subtract two 4-digit numbers with one exchange to identify the smallest answer. Calculations are presented in a linear format. Use of zero as a place holder.

Questions 2, 5 and 8 (Varied Fluency)
Developing Identify the incorrect answer when subtracting two 4-digit numbers with up to one exchange. Calculations are presented as place value grids with pictorial support. No use of zero as a place holder.
Expected Identify the incorrect answer when subtracting two 4-digit numbers with one exchange. Calculations are presented in a column format. Some use of zero as a place holder.
Greater Depth Identify the incorrect answer when subtracting two 4-digit numbers with one exchange. Calculations are presented as bar models. Use of zero as a place holder.

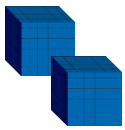
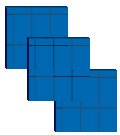
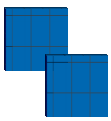
Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Explain errors when subtracting two 4-digit numbers with up to one exchange. Calculations are presented as place value grids with pictorial support. No use of zero as a place holder.
Expected Explain errors when subtracting two 4-digit numbers with one exchange. Calculations are presented in a column format. Some use of zero as a place holder.
Greater Depth Explain errors when subtracting two 4-digit numbers with one exchange. Calculations are presented as part whole models. Use of zero as a place holder.

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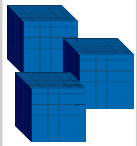
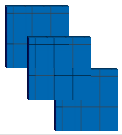
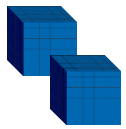
Subtract Two 4-Digit Numbers – One Exchange

1. True or false? B creates the smallest answer. Complete each calculation to check.

A.

	Th	H	T	O
				
–				

B.

	Th	H	T	O
				
–				

VF
HW/Ext

2. Identify the incorrect answer below and correct it.

A.

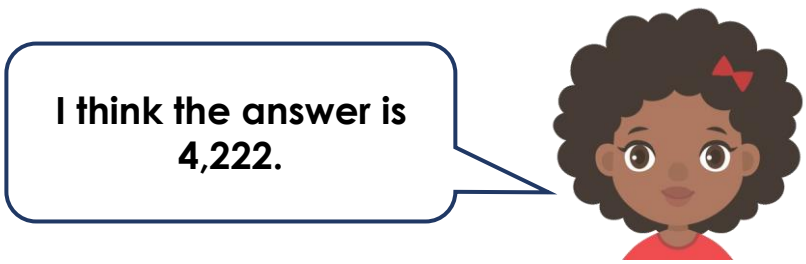
	Th	H	T	O
				
–				
	1	2	3	1

B.

	Th	H	T	O
				
–				
	3	3	5	8

VF
HW/Ext

3. Class 4F have been given the subtraction below to complete.
Rosie says:



	Th	H	T	O
				
–				

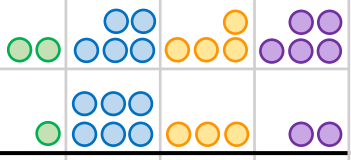
Explain why she is wrong.

RPS
HW/Ext

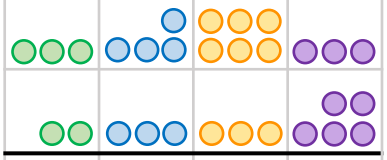
Subtract Two 4-Digit Numbers – One Exchange

4. True or false? B creates the smallest answer. Complete each calculation to check.

A.

	Th	H	T	O
				
–				

B.

	Th	H	T	O
				
–				

C.

	3	7	4	2
–	2	0	1	3

VF
HW/Ext

5. Identify the incorrect answer below and correct it.

A.

	6	$^{2}\cancel{3}$	$^{1}2$	8
–	5	2	7	0
	1	0	5	8

B.

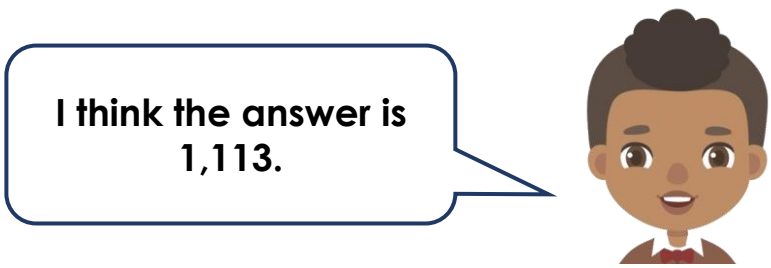
	$^{4}\cancel{5}$	$^{1}5$	4	6
–	1	6	2	3
	3	9	2	3

C.

	7	5	$^{8}\cancel{9}$	$^{1}4$
–	6	4	2	5
	1	1	7	9

VF
HW/Ext

6. Class 4F have been given the subtraction below to complete.
Avneet says:



	7	6	$^{1}\cancel{3}$	$^{1}5$
–	6	5	0	8

Explain why he is wrong.

RPS
HW/Ext

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Subtract Two 4-Digit Numbers – One Exchange

7. True or false? C creates the smallest answer. Complete each calculation to check.

A. 8,482 – 7,650 = ☐

B. 3,921 – 1,705 = ☐

C. 7,889 – 7,790 = ☐

GD

VF
HW/Ext

8. Identify the incorrect answer below and correct it.

A.

9,668	
2,480	?

9,886 – 2,480 = 7,188

B.

7,967	
?	2,059

7,967 – 2,059 = 5,908

C.

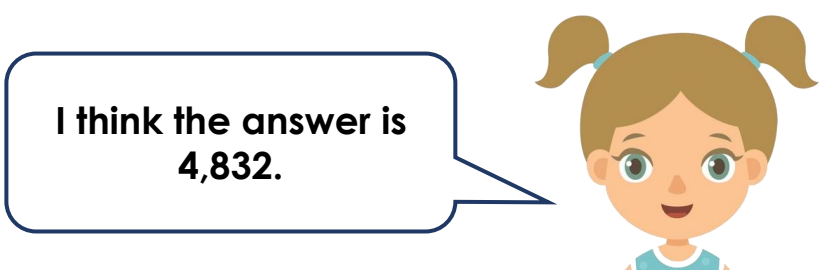
5,329	
?	2,708

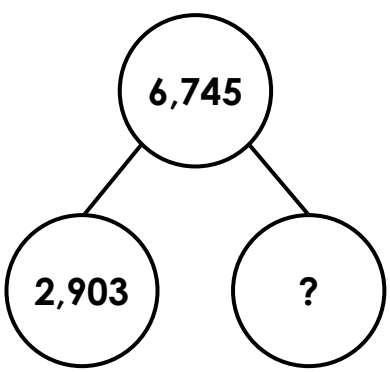
5,329 – 2,708 = 2,601

GD

VF
HW/Ext

9. Class 4F have been given the subtraction below to complete.
Ellie says:





Explain why she is wrong.

GD

RPS
HW/Ext

Homework
Subtract Two 4-Digit Numbers – One Exchange

Developing

1. False. A creates the smallest number because A =1,117 and B = 1,212.
2. B is incorrect. The correct answer is 3,348.
3. Rosie has incorrectly subtracted 4 from 6. She needed to exchange a ten so she could subtract 6 from 14. The correct answer is 4,218.

Expected

4. False. A creates the smallest number because A = 913, B = 1,128 and C = 1,729.
5. C is incorrect. The correct answer is 1,169.
6. Avneet has exchanged the 3 tens incorrectly. He has borrowed 10 and should have 2 tens remaining, not 1 ten. The correct answer is 1,127.

Greater Depth

7. True. C creates the smallest number because A = 832, B = 2,216 and C = 99.
8. C is incorrect. The correct answer is 2,621.
9. Ellie has exchanged in the wrong column. She should have exchanged from the thousands column. The correct answer is 3,842.