

Homework/Extension

Step 7: Subtract Two 4-Digit Numbers 3

Teaching note: In the Expected and Greater Depth levels, 3-digit numbers have been included to ensure that children have a secure understanding of place value and have the opportunity to address any misconceptions that may arise.

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

Mathematics Year 4: (4C3) Estimate and use inverse operations to check answers to a calculation

Mathematics Year 4: (4C4) Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Determine the calculation that is incorrect with more than one exchange. Calculation presented using place value grids and counters and no use of zero as a place holder.

Expected Determine the calculation that is incorrect with more than one exchange. Calculation presented in column format and a place value grid with counters and some use of zero as a place holder.

Greater Depth Determine the calculation that is incorrect with more than one exchange.

Calculation presented in a bar model and part whole model with use of zero as a place holder.

Questions 2, 5 and 8 (Varied Fluency)

Developing Match the subtractions to the correct answer. Calculations presented using place value grids and counters with no use of zero as a place holder.

Expected Match the subtractions to the correct answer. Calculations presented in column format and place value grids with some use of zero as a place holder.

Greater Depth Match the subtractions to the correct answer. Calculations presented as a part whole model, linear format and bar model with use of zero as a place holder.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Explain if the statement is correct involving two 4-digit numbers. Calculation to be solved using the place value grid.

Expected Explain if the statement is correct involving two 4-digit numbers when using the inverse. Calculation to be solved using column format.

Greater Depth Explain if the statement is correct in a multi-step subtraction problem using the inverse. Calculation to be solved using a bar model.

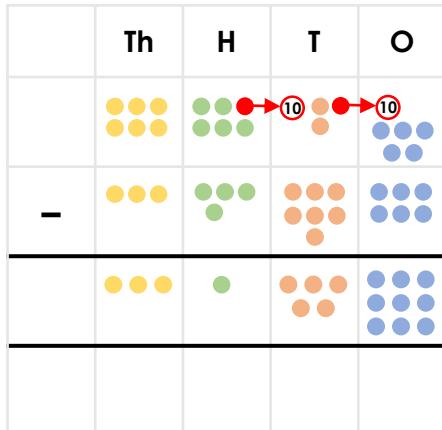
More Year 4 Addition and Subtraction resources.

Did you like this resource? Don't forget to review it on our website.

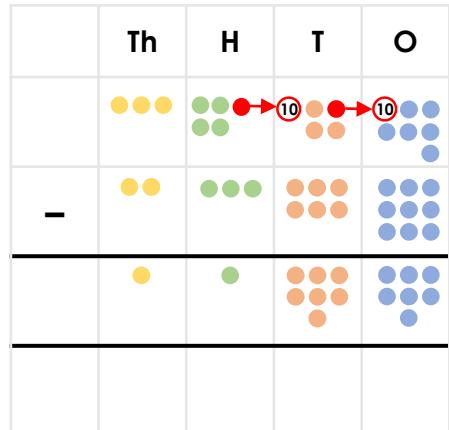
Subtract Two 4-Digit Numbers 3

1. Identify the incorrect calculation.

A.



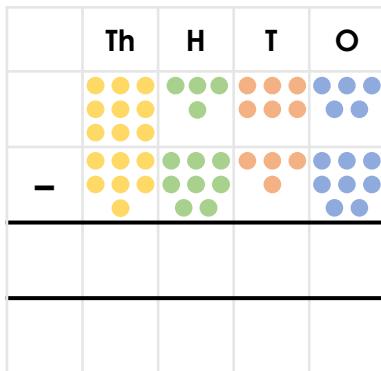
B.



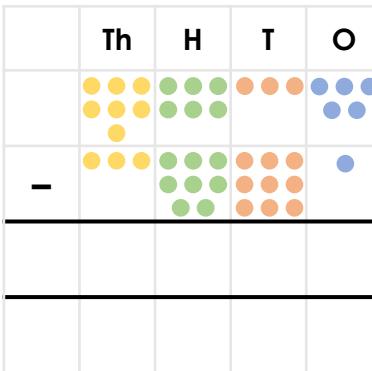
VF
HW/Ext

2. Calculate the calculations and match them to the correct answer.

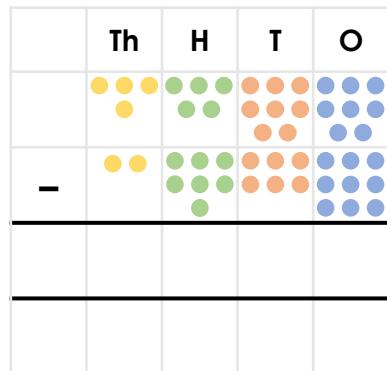
A.



B.



C.



3,744

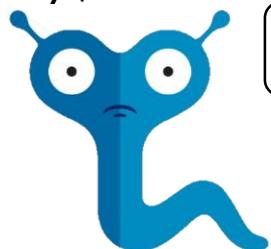
1,617

1,819

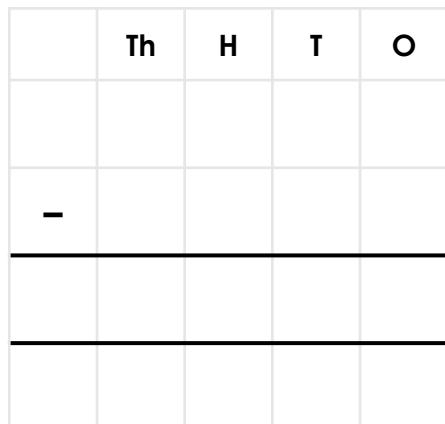
VF
HW/Ext

3. Agawi the Alien has 7,631 litres of fuel in his spaceship which is enough for him to reach home. He has already used 5,496 litres.

He says,



I have 2,245 litres left.



Is Agawi correct? Use the place value grid to prove your answer.



RPS
HW/Ext

Subtract Two 4-Digit Numbers 3

4. Identify the incorrect calculation.

A.

5	6	3	4	1	0	9
-	4	5	3	7		
	1	8	7	2		

B.

	Th	H	T	O
-	Yellow dots (10)	Green dots (10)	Orange dots (10)	Blue dots (10)
	Yellow dots (10)	Green dots (10)	Orange dots (10)	Blue dots (10)



VF
HW/Ext

5. Calculate the calculations and match them to the correct answer.

A.

4	0	6	6
-	6	9	5

B.

	Th	H	T	O
-	Yellow dots (10)	Green dots (10)	Orange dots (10)	Blue dots (10)
	Yellow dots (10)	Green dots (10)	Orange dots (10)	Blue dots (10)

C.

5	3	6	1
-	2	0	7



4,823

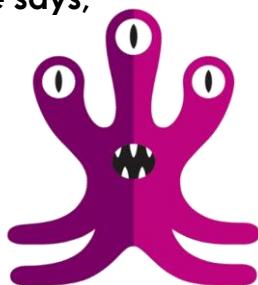
3,282

3,371

VF
HW/Ext

6. Trovak the Alien needs a total of 8,405 litres of fuel to reach home. He already has 3,686 litres in his spaceship.

He says,



I only need 4,816 litres more.

Is Trovak correct? Use column subtraction to prove your answer.

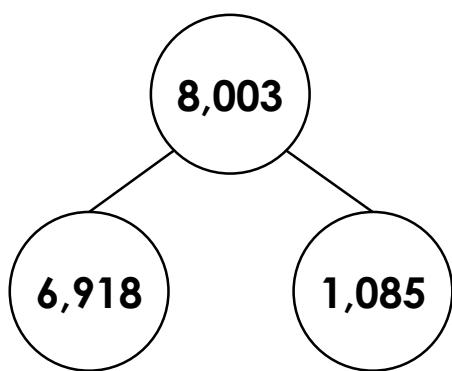


RPS
HW/Ext

Subtract Two 4-Digit Numbers 3

7. Identify the incorrect calculation.

A.



B.

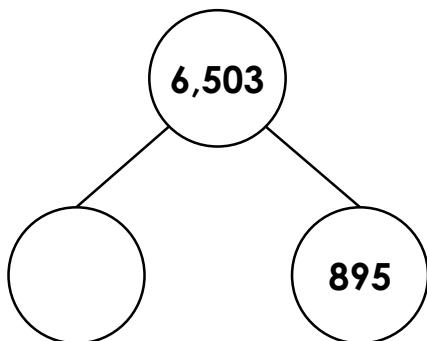
9,602	
5,748	3,184



VF
HW/Ext

8. Calculate the calculations and match them to the correct answer.

A.



$$8,073 - 4,689 = \underline{\hspace{2cm}}$$

C.

7,008
1,254



VF
HW/Ext

9. Oktin the Alien needs a total of 9,501 litres of fuel to get him home. He started with 3,657 and then rests. He then uses another 2,999 and rests.

He says,



I only need 2,764 litres more.

Is Oktin correct? Use the bar model to prove your answer.



RPS
HW/Ext

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Developing

1. **A** is incorrect. The correct answer is 3,159.
2. **A:** 1,617; **B:** 3,744; **C:** 1,819
3. **No** he is incorrect. The correct calculation is $7,631 - 5,496 = 2,135$. Accept correct format of subtraction using a place value grid.

Expected

4. **B** is incorrect. The correct answer 819.
5. **A:** 3,371; **B:** 4,823; **C:** 3,282
6. **No** he is incorrect. The correct calculation is $8,405 - 3,686 = 4,719$. Accept correct format column subtraction.

Greater Depth

7. **B** is incorrect. The correct calculations are $9,602 - 5,748 = 3,854$ or $9,602 - 3,184 = 6,418$.
8. **A:** 5,608; **B:** 3,384; **C:** 5,754
9. **No** he is incorrect. The correct calculations are $9,501 - 3,657 = 5,844$ and $5,844 - 2,999 = 2,845$.