

Homework

Add Whole Numbers with More than Four Digits

National Curriculum Objectives:

Mathematics Year 5: (5C2) Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Match two addition calculations to their answers. Questions involve adding two 5-digit numbers only and are presented using pictorial representations. Includes some exchanging, no use of zero as a place holder and uses numerals only.

Expected Match three addition calculations to their answers. Questions involve adding up to 5-digit numbers and are presented in a columnar format. Includes exchanging with some use of zero as a place holder and uses numerals only.

Greater Depth Match three addition calculations to their answers. Questions involve adding up to 5-digit numbers and are presented in a linear format. Includes multiple exchanges, the use of zero as a place holder, numerals and words. Some examples of unconventional partitioning are used.

Questions 2, 5 and 8 (Varied Fluency)

Developing Calculate the sum of two 5-digit numbers when supported with pictorial representations. Includes some exchanging, no use of zero as a place holder and uses numerals only.

Expected Calculate the sum of two 5-digit numbers presented in a columnar format. Includes exchanging with some use of zero as a place holder and uses numerals only.

Greater Depth Calculate the sum of two 5-digit numbers. Includes multiple exchanges, the use of zero as a place holder, numerals and words. Some examples of unconventional partitioning are used.

Questions 3, 6 and 9 (Problem Solving)

Developing Explain which representation is the odd one out. Question involves adding 5-digit numbers which are presented using pictorial representations. Includes some exchanging, no use of zero as a place holder and numerals only.

Expected Identify a pattern between the answers to each addition calculation when adding up to 5-digit numbers. Includes exchanging with some use of zero as a place holder and uses numerals only.

Greater Depth Identify a pattern when adding up to 5-digit numbers which are presented in a linear format. Includes multiple exchanges, the use of zero as a place holder, numerals and words. Some examples of unconventional partitioning are used.

Add Whole Numbers with More than Four Digits

1. Match the correct answers to the additions shown below.

A.

T Th	Th	H	T	O

79,557

79,458

B.

T Th	Th	H	T	O

78,557

79,854

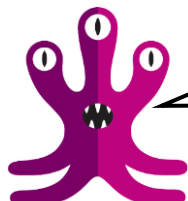


VF
HW/Ext

2. Gilina has gathered the following counters.

T Th	Th	H	T	O

Gilina says,



If I add 15,283 to the number shown in the place value chart above, what number will I make?



VF
HW/Ext

3. Solve the answers to each of these additions.

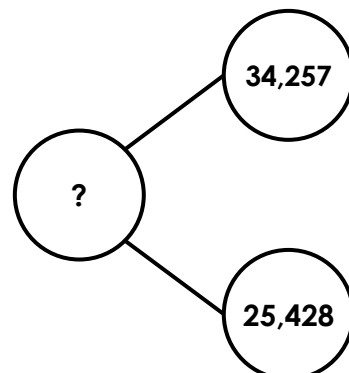
A.

T Th	Th	H	T	O

B.

T Th	Th	H	T	O

C.



Which representation is the odd one out? Explain why.



RPS
HW/Ext

Add Whole Numbers with More than Four Digits

4. Match the correct answers to the additions shown below.

A.

	3	1	1	3	4
		2	5	6	3
+	2	3	2	0	6

B.

	4	7	5	4	0
+		9	3	6	7

C.

		2	9	5	7
	5	1	3	3	8
+			3	5	1

56,903

54,466

54,646

56,907



VF
HW/Ext

5. Makkan is thinking of this 5-digit number.

37,968

Makkan says,



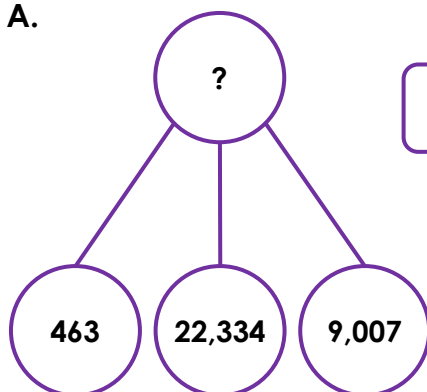
If I add 42,041 to this number, what number will I make?



VF
HW/Ext

6. Solve the answers to each of these additions.

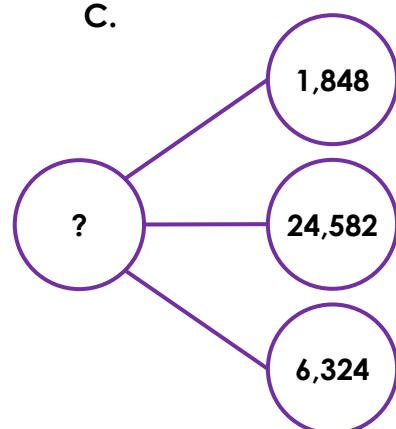
A.



B.

$$12,063 + 29,231 = ?$$

C.



What do you notice about the answers?



RPS
HW/Ext

Add Whole Numbers with More than Four Digits

7. Match the correct answers to the additions shown below.

A. $73,046 + 5,187 =$

B. $69,343 + 7,107 =$

C. $8,064 + 59,886 + 4,867 =$

1. 70 thousands, 25 hundreds and 317 ones

2. 76 thousands, 2 hundreds, 18 tens and 70 ones

3. 92 thousands, 160 hundreds, 24 tens and 45 ones

4. 76 thousands, 22 hundreds and 33 ones



VF
HW/Ext

8. Jubal is thinking of this 5-digit number.

**fourteen thousands,
twelve hundreds, 6 tens and 14 ones**

Jubal says,



If I add 84,327 to this number, what number will I make?



VF
HW/Ext

9. Solve the answers to each of these additions.

A. 69 thousands, 35 hundreds, 89 tens and six ones + $4,092 + 38,594 = ?$

B. $18,074 +$ thirty thousands, 72 hundreds, 18 tens and 25 ones + $59,603 = ?$

C. $24,823 + 89,259 = ?$

What do you notice about the answers?



RPS
HW/Ext

Homework

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Developing

1. $A = 79,557$ and $B = 79,458$
2. $23,614 + 15,283 = 38,897$
3. B is the odd one out because it equals 88,599 whereas A and C both total 59,685.

Expected

4. $A = 56,903$; $B = 56,907$ and $C = 54,646$
5. $37,968 + 42,041 = 80,009$
6. Various answers, for example: each answer has four in the ones column ($A = 31,80\underline{4}$, $B = 41,29\underline{4}$ and $C = 32,75\underline{4}$).

Greater Depth

7. $A = 4$ (78,233); $B = 2$ (76,450) and $C = 1$ (72,817)
8. $84,327 + 15,274 = 99,601$
9. Various answers, for example: all three answers decrease by 1,000 each time ($A = 116,082$, $B = 115,082$ and $C = 114,082$).