

Add Two 4-Digit Numbers 2

1. Which of these calculations give an answer which contains the following digits?

0 3 5 7

Th	H	T	O
●●	●●	●●●	●●●●
●●	●	●●	●●●●

Th	H	T	O
●●●	●●●	●●	●●●
●	●●	●	●●●

Th	H	T	O
●●●	●●	●	●●●●
●●●	●●●	●●	●●●●



VF
HW/Ext

2. Add two of the numbers represented below to make one odd and one even total.

Th	H	T	O
●●●	●●●	●	●●●●

Th	H	T	O
●	●●●	●●	●●●●●

Th	H	T	O
●●	●	●●●	●●●●



VF
HW/Ext

3. Dylan rolls a 6 sided dice to generate numbers to fill in the missing digits. He says, "No matter what numbers I roll for the missing digits, I will only need to exchange once."



Th	H	T	O
●●	●●●	●	
	●●●	●●	●●●●

Th	H	T	O
●●●	●●●		●●●●
●●●		●●	●●●

Is he correct? Explain why.



RPS
HW/Ext

Add Two 4-Digit Numbers 2

4. Which of these calculations give an answer which contains the following digits?

6
5
1
3

	3	0	8	1
+	3	0	7	0
<hr/>				
<hr/>				

	1	2	7	1
+		2	6	5
<hr/>				
<hr/>				

	2	5	3	5
+	1	0	2	6
<hr/>				
<hr/>				



VF
HW/Ext

5. Add two of the numbers represented below to make one odd and one even total.

+				
<hr/>				

Th	H	T	O

2,163

4,072



VF
HW/Ext

6. Bethany rolls a 6 sided dice to generate numbers to fill in the missing digits. She says, "No matter what numbers I roll for the missing digits, I will only need to exchange once."



	5	2	9	3
+	2	4		
<hr/>				
<hr/>				

	7	0		
+	2		1	9
<hr/>				
<hr/>				

Is she correct? Explain why.



RPS
HW/Ext

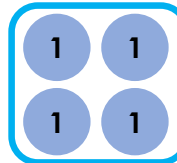
Add Two 4-Digit Numbers 2

7. Which of these calculations give an answer which contains the following digits?

zero

9

seven



$$1,000 + 100 + 100 + 100 + 100 + 100 + 10 + 1 + 1 + 1 + 1 + 438$$

Three thousand, four hundred and ninety-five + 1412

Three thousand, six hundred and eleven +
four thousand, three hundred and twenty-nine



VF
HW/Ext

8. Add the numbers represented below. One total must be odd, one must be even and there must only be one exchange in each calculation.

Five thousand, seven
hundred and forty-five

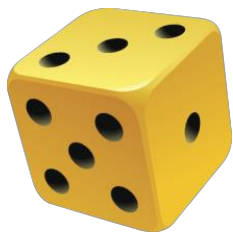
$$3,000 + 500 + 50 + 1$$

1,624



VF
HW/Ext

9. Vanessa rolls a 6 sided dice to generate numbers to fill in the missing digits. Bethany says, "No matter what number I roll for the missing digits I will only need to exchange once."



Two thousand, four hundred and
seventy-three + 4

4 2 + three thousand, two
hundred and ____ - ____

Is she correct? Explain why.



RPS
HW/Ext

Homework/Extension

Add Two 4-Digit Numbers 2

Developing

1. $3,246 + 2,124 = 5,370$
2. $4,315 + 2,146 = 6,461$ or $2,146 + 1,425 = 3,571$; $4,315 + 1,425 = 5,740$
3. Dylan is correct. If a 6 was rolled for each missing number, there would only be one exchange needed (6 + 9).

Expected

4. $1,271 + 265 = 1,536$ and $2,535 + 1,026 = 3,561$
5. $5,346 + 2,163 = 7,509$ or $2,163 + 4,072 = 6,235$; $5,346 + 4,072 = 9,418$
6. Bethany is not correct. If a 6 was rolled for each missing digit, there would be two exchanges needed – one in each calculation.

Greater Depth

7. $3,495 + 1,412 = 4,907$ and $3,611 + 4,329 = 7,940$
8. $5,745 + 3,551 = 9,296$ or $5,745 + 1,624 = 7,369$; $3,551 + 1,624 = 5,175$
9. Vanessa is not correct. If a 6 was rolled for each missing digit there would be two exchanges needed - one in each calculation.