

Monday – Add Two 4-Digit Numbers

1. Complete each calculation. Which one has the fewest exchanges?

A.

	4	8	6	1
+	3	1	3	9
<hr/>				
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B.














	7	5	8	2
+	1	6	2	7
<hr/>				
<hr/>				

C.

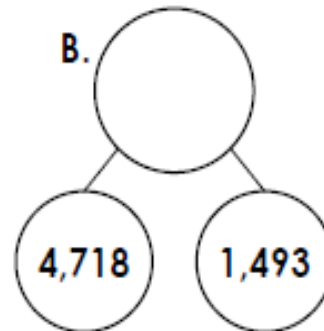
	5	2	0	8
+	3	7	9	2
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2. True or false? C totals the largest number. Complete each calculation to check.

A.

	Th	H	T	O
				
				
+				
				
<hr/>				
<hr/>				

B.



C.

2,360	4,857

3. Arthur has filled in the boxes in the calculation to total the answer below.

	3	7	5	4
+	3	7	7	8
<hr/>				
	6	4	2	2
<hr/>				
	1	1	1	

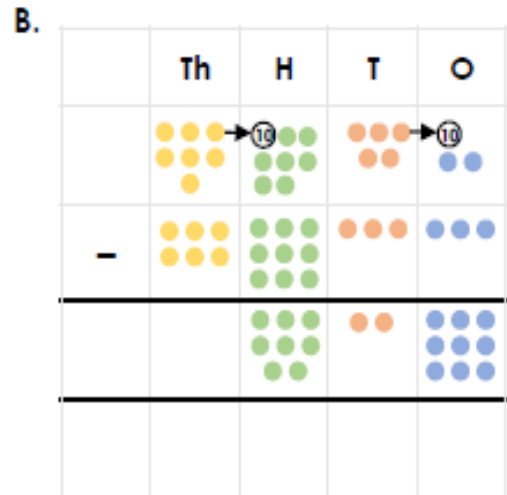
Is he correct? Prove it.

Tuesday – Subtract Two 4-Digit Numbers

1. Which calculation is incorrect?

A.

		⁵ 6	³ 4	¹ 0	9
-	4	5	3	7	
<hr/>					
	1	8	7	2	
<hr/>					



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

A.

	4	0	6	6
-		6	9	5
<hr/>				

B.

	7	5	0	4
-	2	6	8	1
<hr/>				

C.

	5	3	6	1
-	2	0	7	9
<hr/>				

4,823

3,282

3,371

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

Trovak says,



I only need 4,816 litres more.

-				
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Is he correct? Use column subtraction to prove your answer.

Wednesday – Efficient Subtraction

1. Solve the calculation.

$$2,405 - 1,205 = \boxed{}$$

Which method did you use?

5. Check the calculation below.

$$\begin{array}{r} 8\ 9\ 7\ 0 \\ - 7\ 5\ 7\ 0 \\ \hline 1\ 4\ 0\ 0 \end{array}$$

Is this method efficient? Create another calculation where the column method is efficient.

2. Show three different methods to solve the calculation below.

$$5,293 - 1,959$$

6. Do you agree with Alan? Explain your reasoning.



You should use the column method to check any subtraction.

3. There are 3,457 cars in the car park. 1,046 cars leave the car park. How many cars remain? Use an efficient method to solve the word problem.

4. Write each subtraction next to method you think is the most efficient in the table below.

$$7,835 - 6,804$$

$$2,347 - 1,847$$

$$8,394 - 3,023$$

7. Ivy and Ted are solving $7,283 - 5,179$.



Ivy

I'll add 1 to both then partition and subtract.



Ted

I'm going to count on using a number line.

Complete $7,283 - 5,179$ using both strategies. Which was quickest? Why?

Counting On	
Column Method	
Partitioning	

Thursday – Checking Strategies

1. Match each calculation to its inverse.

A. $4,812 + 1,946 = 6,758$

D. $3,473 + 4,152 = 7,625$

B. $7,625 - 4,152 = 3,473$

E. $3,445 = 5,655 - 2,210$

C. $5,655 = 2,210 + 3,445$

F. $6,758 - 1,946 = 4,812$

2. Circle the calculation(s) that Mildred can use to check the answer to $3,765 + 5,906 = 9,671$.

A.

B.

C.

	9	6	7	1
+	5	9	0	6
<hr/>				

	9	6	7	1
-	5	9	0	6
<hr/>				

	9	6	7	1
-	3	7	6	5
<hr/>				

3. George and Samira are discussing how they would check the following calculation using the inverse. Who do you agree with? Explain why.

	8	9	7	6
-	2	4	5	5
<hr/>				
	6	5	2	1

A. $6,521 + 2,455$

B. $8,976 - 6,521$

I would use A because the two smallest numbers must equal the larger one.



George

I would use B because I can find one of the parts by subtracting the other part from the whole.



Samira