NAME

Module 2	Whole Number Operations
Lesson 1	Large Numbers: Addition





Find 767 + 458 using the Partial Sums Method and using the Column Addition Method. Explain why each method works.



Compare and contrast the Standard Addition Method and the Partial Sums Method.



Compare and contrast the Standard Addition Method and the Column Addition Method.

Possible Answers:

Partial Sums Method	Column Addition Method				
767		7	6	7	
<u>+ 458</u>	+	4	5	8	
1,100		11	11	15	-
110		11	12	5	
<u>+ 15</u>		12	2	5	
1,225	1	2	2	5	

The Partial Sums Method works because the expanded forms of the numbers are being added.

The Column Addition Method works because one place value column is added at a time and then regrouping as needed.

2. In the Partial Sums Method, one place value column is added at a time. Then, the partial sums are added. There is not as much regrouping as in the Standard Method. In the Standard Method, one place value is added at a time and is regrouped if necessary as each place value is added.

Partial Sums	Standard
	111
767	767
<u>+ 458</u>	<u>+ 458</u>
1,100	1,225
110	
+ 15	
1,225	

3. In the Column Addition Method, one column is added at a time. Then, go back and regroup one column at a time. In the Standard Method, regroup as each column is added one at a time.

Column Addition			Standard	
	7	6	7	¹¹¹ 767 <u>+ 458</u>
+	4	3	8	1,225
	11	11	15	
	11	12	5	
	12	2	5	
1	2	2	5	
	1,2	25		

1.