



Lesson Notes

2.1

NAME _____

Module 2 Whole Number Operations
Lesson 1 Large Numbers: Addition

Lesson Objective

- Develop and use a variety of algorithms with computational fluency to perform whole number operations using addition (up to five-digit numbers), including **real-world problems**.

Subtopic 1

Partial Sums Method for Addition

Partial Sums Method for Addition

- Add one **place value** column at a time.
- Write each **partial** sum.
- Add all the **partial sums** to find the total sum.

Use the Partial Sums Method to solve.



Riley drove 2,289 miles last week and 1,327 miles this week. How many miles did Riley drive both weeks?

$$\begin{array}{r}
 2,289 \\
 + 1,327 \\
 \hline
 3,000 \\
 500 \\
 100 \\
 + 16 \\
 \hline
 \text{Riley drove 3,616 miles}
 \end{array}$$



One book has 1,546 pages. Another book has 976 pages. How many pages are in both books?

$$\begin{array}{r}
 1,546 \\
 + 976 \\
 \hline
 1,000 \\
 1,400 \\
 110 \\
 + 12 \\
 \hline
 \text{2,522 pages}
 \end{array}$$

Subtopic 2**Column Addition Method for Addition**

Column Addition Method for Addition

- Add one place value column at a time.
- Write each place value answer.
- If necessary, adjust each place value answer one column at a time.

Use the Column Addition Method to solve.

- 3** Josh has a score of 12,725 points on a quiz show. He answers a problem correctly to earn an additional 8,290 points. What is Josh's new score?

	1	2	7	2	5
+		8	2	9	0
	1	10	9	11	5
	1	10	10	1	5
	1	11	0	1	5
	2	1	0	1	5

Josh's new score: 21,015

- 4** A bakery sold 876 doughnuts on Saturday and 659 doughnuts on Sunday. How many doughnuts did the bakery sell on both days?

	8	7	6
+	6	5	9
	14	12	15
	14	13	5
	15	3	5
1	5	3	5

1,535 doughnuts

Subtopic 3**Standard Addition Model**

Solve.

5 $129 + 199$

11
129
+ 199
328

6 $587 + 394$

11
587
+ 394
981