Chapter 3
Addition up to 10,000

Practice 1  Addition Without Regrouping

Add.

Example

\[
\begin{array}{c}
2,508 \\
+ 491 \\
\hline
2,999
\end{array}
\]

Remember:

Step 1  Add the ones.

Step 2  Add the tens.

Step 3  Add the hundreds.

Step 4  Add the thousands.

1.  6,210 \\
+ 765 \\
\hline

2.  5,324 \\
+ 3,351 \\
\hline

3.  5,413 \\
+ 1,382 \\
\hline

4.  7,363 \\
+ 1,406 \\
\hline

5.  1,048 \\
+ 3,430 \\
\hline

6.  3,157 \\
+ 2,242 \\
\hline
Add.

Example

\[
\begin{array}{c}
1,854 + 120 = \underline{1,974} \\
\hline
1,854 \\
+ 120 \\
\hline
1,974
\end{array}
\]

7. \(5,362 + 506 = \underline{5,868}\)

8. \(6,542 + 3,050 = \underline{9,592}\)

9. \(4,632 + 5,306 = \underline{9,938}\)

10. \(741 + 2,100 = \underline{2,841}\)
Find the sum. Use base-ten blocks to help you.

Example

The sum of 6,324 and 251 is 6,575.

11. The sum of 8,624 and 1,362 is ________.

12. The sum of 3,452 and 5,037 is ________.

Add.

Example

2,516 + 3 = 2,519  13. 3,005 + 4 = ____  0

14. 6,015 + 24 = ____  15. 2,021 + 42 = ____  f

16. 8,600 + 300 = ____  17. 2,362 + 606 = ____  o

18. 3,633 + 1,143 = ____  19. 4,361 + 3,015 = ____  d

Write the matching letters of each answer to find out what "Buenas tardes" means.

20. It means G ____  ____  ____

   2,968  3,009  7,376

   A ____  e  ____  ____  ____  ____  ____  ____

   2,063  6,039  2,519  8,900  4,776  2,968  3,009  4,776
Add. Show your work.

Example

\[
\begin{array}{c}
3,132 + 624 = \\
\hline
3,756
\end{array}
\]

Work

21. \[4,094 + 803 = \]

22. \[5,051 + 2,136 = \]

23. \[7,423 + 1,362 = \]

24. \[6,036 + 3,112 = \]

25. \[8,999 + 1,000 = \]
Practice 2 Addition with Regrouping in Hundreds

Add. Use base-ten blocks to help you.

Example

\[
\begin{array}{c}
5,300 \\
+ 2,800 \\
\hline
8,100
\end{array}
\]

1. \[
\begin{array}{c}
3,800 \\
+ 1,600 \\
\hline
\text{__} \text{__}
\end{array}
\]

2. \[
\begin{array}{c}
1,500 \\
+ 900 \\
\hline
\text{__} \text{__}
\end{array}
\]

3. \[
\begin{array}{c}
3,800 \\
+ 2,800 \\
\hline
\text{__} \text{__}
\end{array}
\]

4. \[
\begin{array}{c}
3,700 \\
+ 2,500 \\
\hline
\text{__} \text{__}
\end{array}
\]

5. \[
\begin{array}{c}
2,600 \\
+ 1,400 \\
\hline
\text{__} \text{__}
\end{array}
\]

6. \[
\begin{array}{c}
1,100 \\
+ 1,900 \\
\hline
\text{__} \text{__}
\end{array}
\]

7. \[
\begin{array}{c}
4,900 \\
+ 3,300 \\
\hline
\text{__} \text{__}
\end{array}
\]

8. \[
\begin{array}{c}
4,800 \\
+ 2,300 \\
\hline
\text{__} \text{__}
\end{array}
\]

9. \[
\begin{array}{c}
7,600 \\
+ 1,700 \\
\hline
\text{__} \text{__}
\end{array}
\]
Add. Show your work.

Example

\[1,730 + 2,604 = \boxed{4,334}\]

10. \[3,876 + 2,821 = \boxed{6,697}\]

11. \[3,610 + 1,927 = \boxed{5,537}\]

12. \[1,900 + 5,511 = \boxed{7,411}\]

13. \[5,516 + 2,883 = \boxed{8,399}\]

14. \[6,325 + 2,802 = \boxed{9,127}\]
Practice 3  Addition with Regrouping in Ones, Tens, and Hundreds

Follow the steps to add. Fill in the blanks.

1. Step 1
   \[
   \begin{array}{c}
   5,532 \\
   + 2,989 \\
   \end{array}
   \]
   Add the ones and regroup the ones.
   \[
   2 \text{ ones} + 9 \text{ ones} \\
   = \underline{\text{_______}} \text{ ones} \\
   = \underline{\text{_______ ten \underline{_______ one}}} \\
   \]

Step 2
   \[
   \begin{array}{c}
   5,532 \\
   + 2,989 \\
   \end{array}
   \]
   Add the tens and regroup the tens.
   \[
   1 \text{ ten} + 3 \text{ tens} + 8 \text{ tens} \\
   = \underline{\text{_______ tens}} \\
   = \underline{\text{_______ hundred \underline{_______ tens}}} \\
   \]

Step 3
   \[
   \begin{array}{c}
   5,532 \\
   + 2,989 \\
   \end{array}
   \]
   Add the hundreds and regroup the hundreds.
   \[
   1 \text{ hundred} + 5 \text{ hundreds} + 9 \text{ hundreds} \\
   = \underline{\text{_______ hundreds}} \\
   = \underline{\text{_______ thousand \underline{_______ hundreds}}} \\
   \]

Step 4
   \[
   \begin{array}{c}
   5,532 \\
   + 2,989 \\
   \end{array}
   \]
   Add the thousands.
   \[
   1 \text{ thousand} + 5 \text{ thousands} + 2 \text{ thousands} \\
   = \underline{\text{_______ thousands}} \\
   \]
Add.

1. 1,063
   + 429
   ______

2. 215
   + 796
   ______

3. 1,063
   + 429
   ______

4. 1,198
   + 622
   ______

5. 3,329
   + 1,597
   ______

6. 6,258
   + 2,937
   ______

7. 1,406
   + 86
   ______

8. 3,674
   + 1,667
   ______

9. 6,571
   + 943
   ______

10. 6,435
    + 2,689
     ______

Fill in the blank.

11. Christopher Columbus landed in the Caribbean in the year _________.
    (Hint: The value appears twice on this page.)
Solve.

**Example**

A baker makes 3,452 bagels in the morning.  
He makes another 759 bagels in the afternoon.  
How many bagels does he make in all?

\[
3,452 + 759 = 4,211
\]

The baker makes 4,211 bagels in all.

12. A grocer sells 6,835 apples and 2,795 oranges.  
How many pieces of fruit does she sell in all?

She sells _______ pieces of fruit in all.
Solve.

13. Molly’s bakery sells 5,268 muffins. Then Molly has 1,952 muffins left. How many muffins does she have at first?

Molly has _________ muffins at first.

14. Mr. Sanchez has 2,156 gold coins and 3,152 silver coins. How many coins does he have in all?

Mr. Sanchez has _________ coins in all.
Put On Your Thinking Cap!

Challenging Practice

Use the digits below. Make as many 4-digit numbers as you can.
Do not begin with ‘0’.
For each number, use each digit only once.
Then add two 4-digit numbers where you do not need to regroup.

1. Now you try it!

| 3 | 5 | 9 | 2 | 0 | 7 |

5,072
+ 3,072

8,279
Use the digits below. Make as many 4-digit numbers as you can.
Do not begin with ‘0’.
For each number, use each digit only once.
Then add two 4-digit numbers where you need to regroup.

\[
\begin{align*}
4 & \quad 8 & \quad 1 & \quad 0 & \quad 6 & \quad 9 \\
1,648 & \quad + & \quad 6,980 & \quad = & \quad 8,628
\end{align*}
\]

2. Now you try it!
Put On Your Thinking Cap!

Problem Solving

Find the missing numbers.

1. \[
\begin{array}{c}
3, 6 & 2 & 5 \\
+ 2, 2 & \Box & 4 \\
\hline
5, 8 & 8 & 9
\end{array}
\]

2. \[
\begin{array}{c}
2, & \Box & 8 & 8 \\
+ 3, & 6 & 1 & 5 \\
\hline
6, & 1 & 0 & 3
\end{array}
\]

Find the page numbers of the book.

3. Each of the pages has a 3-digit page number. The number on Page A is an even number. The sum of its digits is 7. The number on Page B is an odd number. The sum of its digits is 8. What are the two possible page numbers for Page A and Page B?

Page 123: Sum of digits  
\[1 + 2 + 3 = 6\]
Solve.

4. Find two numbers whose sum is 100.
   
   _______  +  _______ = 100

5. Find three numbers whose sum is 150.
   
   _______  +  _______  +  _______ = 150

6. A student has four digits.

   3
   
   ?
   
   1
   
   4

   The digit in ? is greater than each of the other digits but is less than the sum of these digits.

   What is the greatest possible digit?

Use the given digits and the answer you found in Exercise 6 to answer Exercises 7 to 9.

7. What is the greatest possible 4-digit number?

8. What is the least possible 4-digit number?

9. What is the sum of the 4-digit numbers in Exercises 7 and 8?