



Another Example

Find the sum. $30,283 + 63,423 + 6,538$

Estimate:

$$30,000 + 63,000 + 7,000 = 100,000$$

$$\begin{array}{r} \\ 30,283 \\ 63,423 \\ + 6,538 \\ \hline 100,244 \end{array}$$

The sum is reasonable because it is close to the estimate of 100,000.

★ Guided Practice*

In 1 through 4, find each sum.

1.
$$\begin{array}{r} 3,258 \\ + 1,761 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 16,018 \\ + 135 \\ \hline \end{array}$$

3. $821 + 4,543$

4. $14,926 + 3,832$

5. **Construct Arguments** When adding 36,424 and 24,842, why is there no regrouping in the final step?

6. Volunteer teams identified 73 species of fish, 30 species of coral, and 71 other invertebrate species on a reef. How many species were found in all?

★ Independent Practice ★

Leveled Practice In 7 through 14, find each sum.

7.
$$\begin{array}{r} 78 \\ + 421 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 617 \\ + 14,312 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 873 \\ + 4,893 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 38,911 \\ + 45,681 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 327 \\ + 886 \\ \hline \end{array}$$

12. $9,634 + 2,958$

13. $4,673 + 262$

14. $7,845 + 509 + 3,746$

Use estimation to check your answers for reasonableness.



Problem Solving

15. **Communicate** Explain the mistake made when finding the sum. What is the correct sum?

$$\begin{array}{r} 543 \\ + 29 \\ \hline 562 \end{array}$$

A good math explanation should be clear, correct, and easy to understand.



16. **Reason** The sum of 86, 68, and 38 is 192. What do you also know about the sum of 68, 38, and 86? Explain.

17. **Estimation** Maria added 45,273 and 35,687. Will her answer be greater or less than 80,000?

18. A mailman delivers 12,578 pieces of mail on Monday. He delivers 26,229 pieces of mail on Tuesday. How many pieces of mail does he deliver on both days?

- A 15,129 pieces of mail
- B 26,229 pieces of mail
- C 36,239 pieces of mail
- D 38,807 pieces of mail

19. **Check for Reasonableness** Look at the problem and the answer. Using estimation, determine if the given answer is reasonable. Explain.

$$\begin{array}{r} 224 \\ 303 \\ + 125 \\ \hline 652 \end{array}$$

20. **Extend Your Thinking** There were 10,453 items checked out of the public library one week. The next week, 12,975 items were checked out. A week later, 9,634 items were checked out. How many items were checked out during the busiest two weeks?

21. **Extend Your Thinking** Abby read 235 pages of a book. Joey read 123 more pages than Abby. How many pages did Abby and Joey read in all?