

# Homework & Practice 2-3

## Add Whole Numbers

### Another Look!



You can add two or more numbers when you line up the numbers by place value. Add one place at a time.

Find  $3,456 + 2,139 + 5,547$ .

Estimate:  $3,500 + 2,100 + 5,500 = 11,100$

### Step 1

Line up the numbers by place value.

Add the ones.

Regroup if needed.

$$\begin{array}{r} 3,456 \\ 2,139 \\ + 5,547 \\ \hline 2 \end{array}$$

Regroup 22 ones as 2 tens and 2 ones.

### Step 2

Add the tens and hundreds.

Regroup if needed.

$$\begin{array}{r} 3,456 \\ 2,139 \\ + 5,547 \\ \hline 142 \end{array}$$

Keep digits in columns as you add.

### Step 3

Add the thousands.

Remember to regroup for ten thousands if necessary.

$$\begin{array}{r} 3,456 \\ 2,139 \\ + 5,547 \\ \hline 11,142 \end{array}$$

11,142 is close to the estimate of 11,100.

For 1–8, find each sum.

1. 
$$\begin{array}{r} 9,945 \\ + 3,343 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 12,566 \\ + 5,532 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 387,969 \\ + 562,031 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 629,979 \\ 294,116 \\ + 75,905 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 227,418 \\ 196,735 \\ + 48,062 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 82,011 \\ 96,489 \\ + 76,988 \\ \hline \end{array}$$

7. 
$$\begin{array}{r} 126,267 \\ 15,809 \\ + 8,764 \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 45,101 \\ 35,099 \\ + 10,000 \\ \hline \end{array}$$

Use estimation to check if your answer is reasonable.



9. **Number Sense** Estimate then add to find the combined length of the four highways shown in the table. Is your answer reasonable? Explain.

Lengths of Interstate Highways	
Interstate	Length (miles)
I-90	3,102
I-10	2,460
I-70	2,153
I-80	2,899

10. **MP.4 Model with Math** A shipping company delivered 38,728 letters and 41,584 packages. Write and solve an equation to find how many items the company delivered.

11. **Algebra** The total cost of the Fatigato family's two cars was \$71,482. The cost of one car was \$38,295. Write an equation using a variable to represent the cost of the family's other car.

12. **Number Sense** Leona added  $206,425 + 128,579 + 314,004$ . Should Leona's sum be greater or less than 650,000?

13. **Higher Order Thinking** In one week, Katy walks 1,750 meters and runs 1,925 meters. She performs the same workouts for three weeks. How many meters does Katy walk and run in three weeks of workouts?

## Common Core Assessment

14. A recent census listed the population of a city as 831,982. Marisol rounds the population to 830,000, and Lindy rounds the population to 800,000.

### Part A

Who rounded the population of the city correctly? Explain.

### Part B

Which rounded population is a more accurate estimate?