Add and Subtract Whole Numbers

Name: _____

Prerequisite: Add and Subtract Three-Digit Numbers

Study the example showing how to subtract by breaking apart and combining numbers. Then solve problems 1–6.

Example

Solve 852 − 623.

Use place value to write each number as hundreds, tens, and ones.	852 = 800 + 50 + 2 or **800 + 40 + 12** 623 = **600 + 20 + 3**
Subtract hundreds.	800 − 600 = 200
Subtract tens.	40 − 20 = 20
Subtract ones.	12 − 3 = 9
Combine the differences.	200 + 20 + 9 = 229 852 − 623 = 229

1 Show how to use place value to subtract 947 − 586.

2 Show how to use place value to add 354 + 271.

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Solve.

3 Alice drove 235 miles on Saturday. On Sunday, she drove 68 more miles than on Saturday. How many miles did Alice drive altogether on Saturday and Sunday?

Show your work.

Solution: _____

4 Kayla solved a subtraction problem. She wrote 490 − 185 = 675. Explain what Kayla did wrong and correctly solve the problem.

Show your work.

Solution: _____

5 Ryan has 96 business cards. He buys 225 more cards. He hands out 248 cards at a conference. How many cards does Ryan have left?

Show your work.

Solution: _____

6 Write each digit in the correct box below. Use each digit only once.

0	1	2	3	4	5	6	7	8	9

$$\begin{array}{r} 2\square 9 \\ -\,1\square 0 \\ \hline 1\,4\,9 \end{array} \qquad \begin{array}{r} 6\,7\square \\ +\,\square\,3\,1 \\ \hline 1\,6\,0\,5 \end{array} \qquad \begin{array}{r} 3\square 2 \\ +\,\square 5\square \\ \hline 4\,5\,8 \end{array} \qquad \begin{array}{r} \square 1\square \\ -\,\square 9 \\ \hline 7\,5\,3 \end{array}$$

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Add Whole Numbers

Study the example showing how to use addition to solve a word problem. Then solve problems 1–6.

Example

On Friday, 1,150 people saw the school play. On Saturday, 987 people saw the play. How many people saw the play on those two days?

$$\begin{array}{r} 1{,}150 \\ +\ 987 \\ \hline 7 \\ 130 \\ 1{,}000 \\ +\ 1{,}000 \\ \hline 2{,}137 \end{array}$$

7 ⟶ 0 ones + 7 ones = 7 ones

130 ⟶ 5 tens + 8 tens = 13 tens or 1 hundred + 3 tens

1,000 ⟶ 1 hundred + 9 hundred = 10 hundreds or 1 thousand

+ 1,000 ⟶ 1 thousand + 0 thousand = 1 thousand

$$\begin{array}{r} {\scriptstyle 1\ 1} \\ 1{,}150 \\ +\ 987 \\ \hline 2{,}137 \end{array}$$

2,137 people saw the play.

1 Show two ways to add 7,315 + 1,890.

2 Find the sum.

$$\begin{array}{r} 1{,}025 \\ +\ 4{,}589 \\ \hline \end{array}$$

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Solve.

3 Last summer, Mia's family drove 1,024 miles from Grand Canyon National Park to Mount Rushmore National Memorial. Then they drove 1,389 miles from Mount Rushmore to Yosemite National Park. How many miles did they drive in all?

Show your work.

Solution: _____

4 Use the tiles to create a number that makes each addition problem true. You may use a tile more than once.

1 **2** **3** **4** **5**

$$\begin{array}{r} 1\ 1\ 1 \\ +\ \square,\square\square\square \\ \hline 3,3\ 6\ 5 \end{array} \qquad \begin{array}{r} 5,3\ 1\ 9 \\ +\ \square,\square\square\square \\ \hline 9,8\ 4\ 0 \end{array}$$

5 On Monday, Calvin ran 4,250 meters. On Tuesday, he ran 4,980 meters. How many meters did he run altogether on Monday and Tuesday?

Show your work.

Solution: _____

6 Sam added 6,152 and 379 and got a sum of 9,942. Explain why Sam's addition is incorrect and find the sum of 6,152 + 379.

_____

_____

_____

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Subtract Whole Numbers

Study the example showing how to use subtraction to solve a word problem. Then solve problems 1–6.

Example

In one day, Pete took 7,192 steps. Joe took 5,210 steps.
How many more steps did Pete take than Joe?

Regroup.

Thousands	Hundreds	Tens	Ones
7	1	9	2
6	10 + 1 = 11	9	2

$$\begin{array}{r} {\scriptstyle 6\ 11} \\ 7,\!192 \\ -\ 5,210 \\ \hline 1,982 \end{array}$$

Subtract.

	Thousands	Hundreds	Tens	Ones
	6	11	9	2
−	5	2	1	0
	1	9	8	2

Pete took 1,982 more steps than Joe.

1 Subtract.

$$\begin{array}{r} 3,008 \\ -\ 1,265 \\ \hline \end{array}$$

2 Find the difference.

$$\begin{array}{r} 1,640 \\ -\ 952 \\ \hline \end{array}$$

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Solve.

3 The table below shows the number of seats in two basketball arenas. How many more seats does Arthur Arena have than Griffin Fieldhouse?

Number of Seats	
Griffin Fieldhouse	22,826
Arthur Arena	44,750

Show your work.

Solution: _____

4 A city has a population of 289,000 people. Ten years ago, the population was 259,500 people. How many more people does the city have now?

Solution: _____

5 Use the tiles below to create a number that makes each subtraction problem true. You may use a tile more than once.

1	2	3	4	5

$$\begin{array}{r} 65,900 \\ -\ \square,\square\square\square \\ \hline 64,575 \end{array} \qquad \begin{array}{r} 87,005 \\ -\ \square\square,\square\square\square \\ \hline 61,862 \end{array}$$

6 Peter listed his car for sale at $21,550. After a week, he dropped the sale price by $1,650. When the car sold, the sale price was another $1,955 less. What was the final sale price of the car?

Show your work.

Solution: _____

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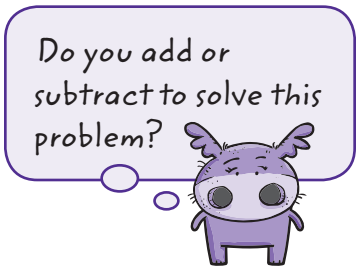
Add and Subtract Whole Numbers

Solve the problems.

1 Jake has 1,326 songs on his music player. Kyle has 795 more songs than Jake. How many songs does Kyle have?

A 2,021 **C** 2,121

B 631 **D** 531



2 A school's goal is to raise $5,000 to donate to charity. The school has raised $2,157. How much more money does the school need to raise?

A $2,843 **C** $2,953

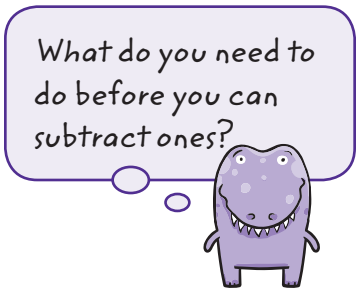
B $7,157 **D** $3,843

Sonya chose **C** as the correct answer. How did she get that answer?

_____

_____

_____



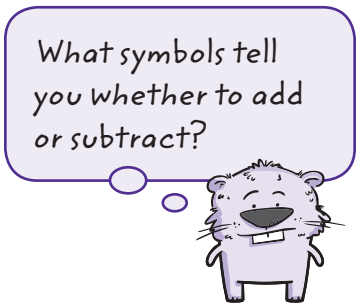
3 Tell whether each number sentence is *True* or *False*.

a. 908 + 1,725 = 2,633 ☐ True ☐ False

b. 17,625 − 2,460 = 5,245 ☐ True ☐ False

c. 112,950 + 32,408 = 45,358 ☐ True ☐ False

d. 43,900 − 17,825 = 26,075 ☐ True ☐ False



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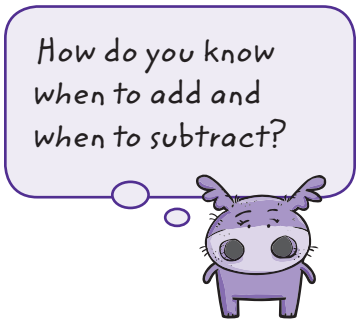
Solve.

4 Use the information below to fill in the missing data in the table.

The height of Willis Tower is 325 feet less than the height of One World Trade Center.

The height of Trump Tower is 139 feet more than the height of the Empire State Building.

The height of Bank of America Tower is 576 feet less than the height of One World Trade Center.



Five Tallest Buildings in the U.S.

Rank	Name	Location	Height (ft)
1	One World Trade Center	New York City	1,776
2	Willis Tower	Chicago	
3	Trump Tower	Chicago	
4	Empire State Building	New York City	1,250
5	Bank of America Tower	New York City	

5 Use the information in the table below to answer the riddle. Write the the missing data in the table.

I am the tallest building in the world. If you add my height to the height of the next three tallest buildings, the total is 8,132 feet. How tall am I?

Four Tallest Buildings in the World

Rank	Name	Location	Height (ft)
1	Burj Khalifa	United Arab Emirates	
2	Makkah Royal Clock Tower	Saudi Arabia	1,972
3	One World Trade Center	New York City	1,776
4	Taipei 101	Taipei, Taiwan	1,667

Show your work.

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