Write the number of tens and the number of ones in each number.

1 56

_____ tens

_____ ones

2 708

_____ tens

_____ ones

3 6,170

_____ tens

_____ ones

Write the number of thousands and the number of hundreds in each number.

4 4,982

_____ thousands

_____ hundreds

5 316

_____ thousands

_____ hundreds

6 2,057

_____ thousands

_____ hundreds

Make a place-value drawing for each number, using ones, quick tens, hundred boxes, and thousand bars.

7 36

8 510

9 403

10 1,072

Name   Date

Multiply or divide.

1 $8 \times 3 =$ _____

2 $40 \div 4 =$ _____

3 $27 \div 9 =$ _____

4 $7 \times 6 =$ _____

5 $2 \times 8 =$ _____

6 $6 \times 5 =$ _____

Use the diagram to complete Exercises 7–10.

☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆
☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆
☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆
☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆

Write two related multiplication problems for the diagram.

7 _____

8 _____

Write two related division problems for the diagram.

9 _____

10 _____

11 **Stretch Your Thinking** Marcus says this place value drawing represents the number 4,083. Owen says it represents 483. Which student is correct? Explain the error.

_____

_____

_____

Read and write each number in standard form.

1 90 + 2 _____

2 600 + 80 + 9 _____

3 2,000 + 800 + 50 + 7 _____

4 3,000 + 80 + 5 _____

Read and write each number in expanded form.

5 48 _____

6 954 _____

7 6,321 _____

8 4,306 _____

9 1,563 _____

10 2,840 _____

Read and write each number in word form.

11 300 + 20 + 5 _____

12 5,000 + 700 + 40 + 8 _____

13 9,000 + 400 + 6 _____

Read and write each number in standard form.

14 seventy-six _____

15 three hundred one _____

16 four thousand, two hundred sixteen _____

17 five thousand, one hundred forty-two _____

Write the value of the underlined digit.

18 2<u>8</u>7 _____

19 <u>8</u>,792 _____

20 7,<u>8</u>12 _____

Multiply or divide.

1 $6 \times 4 =$ _____

2 $56 \div 8 =$ _____

3 $45 \div 9 =$ _____

4 $6 \times 6 =$ _____

5 $3 \times 7 =$ _____

6 $48 \div 6 =$ _____

7 Grace read six books over the summer. Her sister read three times that number. How many books did Grace's sister read over the summer?

_____

Write the number of thousands and the number of hundreds in each number.

8 5,812

_____ thousands

_____ hundreds

9 7,026

_____ thousands

_____ hundreds

Make a place value drawing for each number, using ones, quick tens, hundred boxes, and thousand bars.

10 603

11 3,187

12 **Stretch Your Thinking** Mr. Thomas writes 4,<u>9</u>64 on the board. Amy says the value of the underlined digit is 9. Chris said the value is 900. Which student is correct? Explain.

_____

_____

Place Value Patterns

Round each number to the nearest thousand.

1 6,578 _____   **2** 4,489 _____   **3** 8,099 _____   **4** 2,761 _____

Round each number to the nearest hundred.

5 789 _____   **6** 971 _____   **7** 2,759 _____   **8** 3,148 _____

Round each number to the nearest ten.

9 46 _____   **10** 381 _____   **11** 4,175 _____   **12** 5,024 _____

Compare using >, <, or =.

13 4,538 ◯ 4,835   **14** 3,554 ◯ 3,449   **15** 1,289 ◯ 1,298

16 7,235 ◯ 6,987   **17** 4,004 ◯ 4,034   **18** 5,609 ◯ 5,059

Solve.

19 When you round a number, which digit in the number helps you decide to round up or round down? Explain your answer.

_____

_____

_____

_____

20 When you round a number, what should you do with the digits to the right of the place to which you are rounding?

_____

_____

_____

Find the unknown number.

1 4 × 8 = _____

2 42 ÷ 7 = _____

3 63 ÷ _____ = 9

4 _____ × 5 = 40

5 9 × _____ = 81

6 _____ ÷ 6 = 10

7 21 ÷ 7 = _____

8 10 × _____ = 100

Write the number of tens and the number of ones in each number.

9 607

_____ tens

_____ ones

10 9,324

_____ tens

_____ ones

Read and write each number in standard form.

11 40 + 3 _____

12 500 + 70 + 9 _____

13 1,000 + 200 + 50 + 8 _____

14 8,000 + 70 + 7 _____

15 **Stretch Your Thinking** Sara is thinking of a number. When she rounds her number to the nearest hundred, she gets 700. What is the greatest number Sara can be thinking of? Explain.

_____

_____

_____

Read and write each number in expanded form.

1 39,012 _____

2 640,739 _____

3 102,453 _____

4 460,053 _____

Read and write each number in word form.

5 1,000,000

_____

6 730,812

_____

7 45,039

_____

8 600,439

_____

Read and write each number in expanded form.

9 nine hundred twenty-three thousand, nine hundred twenty-three

_____

10 one hundred forty thousand, one hundred four

_____

11 seventy-six thousand, five

_____

12 fifty-nine thousand, two hundred sixty-one

_____

13 seven hundred thousand, four hundred thirty

_____

14 thirty-one thousand, two hundred seventy-nine

_____

Use the numbers 7, 9, and 63 to complete the related equations.

1 $7 \times$ _____ = _____

2 $9 \times$ _____ = _____

3 _____ ÷ _____ = 7

4 _____ ÷ _____ = 9

Solve.

5 Aileen made 36 mini muffins for the school bake sale. Each bag holds four mini muffins. How many bags of mini muffins will she have for the bake sale?

_____

Read and write each number in expanded form.

6 86 _____

7 421 _____

8 7,915 _____

9 3,402 _____

Write the value of the underlined digit.

10 4<u>8</u>9 _____

11 <u>7</u>,493 _____

12 1,50<u>6</u> _____

Round each number to the nearest ten.

13 47 _____

14 6,022 _____

Round each number to the nearest hundred.

15 672 _____

16 3,940 _____

17 **Stretch Your Thinking** How many zeros are in the standard form of six hundred thousand, twenty? Explain.

_____

_____

Compare using >, <, or =.

1 57,068 ◯ 57,860

2 24,516 ◯ 24,165

3 154,424 ◯ 145,424

4 836,245 ◯ 683,642

5 89,175 ◯ 89,175

6 100,000 ◯ 1,000,000

Round to the nearest ten thousand.

7 11,295 _____

8 82,964 _____

9 97,079 _____

Round to the nearest hundred thousand.

10 153,394 _____

11 410,188 _____

12 960,013 _____

13 837,682 _____

Solve.

14 What would 672,831 be rounded to the nearest:

 a. ten? _____

 b. hundred? _____

 c. thousand? _____

 d. ten thousand? _____

 e. hundred thousand? _____

15 Compare the number 547,237 rounded to the nearest hundred thousand and 547,237 rounded to the nearest ten thousand. Which is the greater number? Write a comparison statement and explain your answer.

_____

_____

_____

_____

Find the unknown value in the number sentence.

1 $8 \times k = 16$ $k =$ _____   **2** $n \times 9 = 90$ $n =$ _____

3 $35 \div t = 5$ $t =$ _____   **4** $p \div 6 = 9$ $p =$ _____

Solve.

5 In an arcade game, Nick can earn up to 10 tickets, depending on which slot his coin goes through. If he plays the game six times, what is the greatest number of tickets Nick could earn?

_____

Round each number to the nearest thousand.

6 2,950 _____   **7** 4,307 _____

Read and write each number in word form.

8 16,977 _____

9 403,056 _____

10 **Stretch Your Thinking** Leon says that he can compare numbers in the same way that he alphabetizes words. For example, since the first two letters of *cat* and *cane* are the same, he goes to the next letter to compare. Since *n* comes before *t* in the alphabet, the word *cane* comes first in a dictionary. To compare 64,198 with 641,532, he knows that the first three digits 641 are the same. Then he compares the next digit in each number. Since 9 is greater than 5, the number 64,198 must be greater. Is Leon's way of thinking correct? Explain.

_____

_____

_____

_____

Name _____   Date _____

Use the information in the table to answer the questions.

Driving Distances (in miles) between Various Cities in the United States

	New York, NY	Chicago, IL	Los Angeles, CA
Atlanta, GA	886	717	2,366
Dallas, TX	1,576	937	1,450
Nashville, TN	914	578	2,028
Omaha, NE	1,257	483	1,561
Seattle, WA	2,912	2,108	1,141
Wichita, KS	1,419	740	1,393

1 If you drive from New York to Dallas and then from Dallas to Chicago, how many miles would you drive?

_____

2 Which two cities are farther apart in driving distance: Seattle and Los Angeles or Wichita and New York? Use place value words to explain your answer.

_____

_____

Use any method to add. On another sheet of paper, make a drawing for exercise 5 to show your new groups.

3   1,389
     + 5,876

4   3,195
     + 2,674

5   1,165
     + 7,341

6   2,653
     + 4,908

7   3,692
     + 7,543

8   8,598
     + 5,562

9   4,295
     + 8,416

10   6,096
      + 9,432

Multiply or divide.

1 $81 \div 9 =$ _____

2 $7 \times 4 =$ _____

3 $9 \times 3 =$ _____

4 $24 \div 4 =$ _____

5
$$\begin{array}{r} 7 \\ \times\ 8 \\ \hline \end{array}$$

6
$$\begin{array}{r} 5 \\ \times\ 7 \\ \hline \end{array}$$

7 $10\overline{)80}$

8 $7\overline{)42}$

Read and write each number in expanded form.

9 eighty-six thousand, nine hundred twenty-one

_____

10 nine hundred twenty thousand, four hundred thirteen

_____

Compare using >, <, or =.

11 36,290 $\bigcirc$ 36,290

12 438,000 $\bigcirc$ 43,800

13 298,150 $\bigcirc$ 298,105

14 999,999 $\bigcirc$ 1,000,000

15 **Stretch Your Thinking** Find the unknown digits in the following addition problem.

$$\begin{array}{r} 3,\ \square\ 6\ \square \\ +\ 4,\ 9\ \square\ 2 \\ \hline \square,\ 5\ 3\ 6 \end{array}$$

Make New Groups for Addition

Copy each exercise, lining up the places correctly. Then add.

1 51,472 + 7,078

2 94,280 + 56,173

3 1,824 + 36,739

4 372,608 + 51,625

5 314,759 + 509,028

6 614,702 + 339,808

7 493,169 + 270,541

8 168,739 + 94,035

The table shows the surface area of each of the Great Lakes.

Use the data in the table to help answer the following questions.

Lake	Surface Area (square miles)
Erie	9,906
Huron	22,973
Michigan	22,278
Ontario	7,340
Superior	31,700

9 Which is greater, the surface area of Lake Superior, or the sum of the surface areas of Lake Michigan and Lake Erie?

Show your work.

_____

10 Which two lakes have a combined surface area of 30,313 square miles?

_____

Multiply or divide.

1 30 ÷ 5 = _____

2 8 × 7 = _____

3 4 × 6 = _____

4 70 ÷ 7 = _____

5 3 × 9 = _____

6 36 ÷ 6 = _____

Compare using >, <, or =.

7 6,299 ◯ 62,990

8 389,151 ◯ 394,027

9 134,657 ◯ 134,257

10 93,862 ◯ 93,862

Use any method to add.

11 1,362
    + 6,509

12 3,893
    + 5,245

13 6,399
    + 7,438

14 **Stretch Your Thinking** Peter adds 245,936 + 51,097 as follows. Explain his error. What is the correct sum?

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

_____

_____

_____

Add Greater Numbers

Name _____ **Date** _____

Write a number sentence that shows an estimate of each answer. Then write the exact answer.

1 69 + 25 _____

2 259 + 43 _____

3 2,009 + 995 _____

4
```
    5
    3
    7
 +  4
```

5
```
   38
   54
 + 52
```

6
```
   28
   44
   32
 +46
```

7
```
  243
  625
 +387
```

8
```
  154
  131
  204
 +179
```

Solve.   *Show your work.*

9 Paul's stamp collection includes 192 domestic and 811 foreign stamps.

About how many domestic and foreign stamps does Paul have altogether?

_____

Exactly how many domestic and foreign stamps does Paul have altogether?

_____

10 Plane A travels 102,495 miles. Plane B travels 91,378 miles. How many miles in all do the two planes travel?

_____

Explain how you can use estimation to check that your answer is reasonable.

_____

_____

_____

What is 362,584 rounded to the nearest:

1 hundred? _____

2 thousand? _____

3 ten thousand? _____

4 hundred thousand? _____

Use any method to add.

5 2,938
      + 4,271

6 8,305
      + 1,467

7 8,074
      + 3,552

Copy each exercise, lining up the places correctly. Then add.

8 45,296 + 38,302

9 293,017 + 58,226

10 **Stretch Your Thinking** Luanne estimates the sum of 39 + 15 is about 40 + 15, or 55. Jacob estimates the sum of 39 + 15 is about 40 + 20, or 60. Which estimate is closer to the exact sum? Explain.

_____

_____

_____

_____

Subtract. Show your new groups.

1   7,000
    − 3,264

2   9,632
    − 3,785

3   8,054
    − 1,867

4   4,000
    − 2,945

5   8,531
    − 7,624

6   8,006
    − 4,692

7   9,040
    − 5,712

8   6,000
    − 5,036

9   7,180
    − 4,385

10   6,478
    − 3,579

11   9,490
    − 5,512

12   5,000
    − 3,609

Solve.

Show your work.

13 A cross-country automobile rally is 1,025 kilometers long. At a stopping place, the leader had traveled 867 kilometers. How far away was the finish line?

_____

14 A census counted 5,407 people in Marina's home town. If 3,589 are males, how many are females?

_____

15 A construction company is building a stone wall. The finished wall will contain 5,000 stones. So far, 1,487 stones have been placed. How many stones have not been placed?

_____

Use any method to add.

1   6,022
    + 1,988

2   4,586
    + 1,693

3   8,374
    + 3,707

The table shows the amount of litter collected from parks across a city on Earth Day each year. Use the data in the table to help answer the following questions.

4 How much litter was collected altogether in 2007 and 2008?

_____

5 Which two years had a combined litter collection of 23,456 pounds?

_____

Litter Collected on Earth Day

Year	Pounds of Litter
2007	8,293
2008	12,104
2009	15,877
2010	11,352

Write an equation that shows an estimate of each answer. Then write the exact answer.

6 495 + 812 _____

7 7,203 + 299 _____

8 2,859 + 6,017 _____

9 **Stretch Your Thinking** Bridget ungrouped 5,000 as shown. Use your understanding of place value to explain how the ungrouped number is equal to 5,000.

   4 9 9 10
   5̶,0̶0̶0̶
  −2,896

_____

_____

_____

Subtract. Then use addition to check the subtraction. Show your work.

1 1,400 − 238 = _____

Check: _____

2 1,900 − 1,238 = _____

Check: _____

3 4,620 − 1,710 = _____

Check: _____

4 5,243 − 2,454 = _____

Check: _____

5 3,142 − 1,261 = _____

Check: _____

6 2,375 − 896 = _____

Check: _____

Solve.   *Show your work.*

7 A school library has 1,058 books in its collection. The town library has 4,520 books in its collection. How many books are there altogether?

_____

8 A town official knows how many books the town library has and how many books both libraries have altogether. She wants to know how many books the school library has. How can she use subtraction to find the answer?

_____

Name _____   Date _____

Copy each exercise, lining up the places correctly. Then add.

1 32,418 + 508,182

2 734,150 + 60,382

Solve.   *Show your work.*

3 The entire fourth grade is made up of 102 boys
and 86 girls. *About* how many students are in the
fourth grade altogether?

_____

Exactly how many students are in the
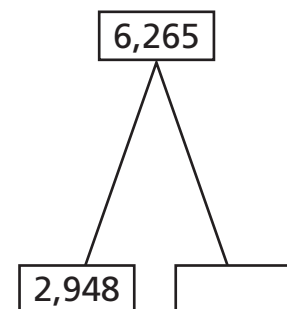fourth grade altogether?

_____

Subtract. Show your new groups.

4   5,000
     − 2,583
     _____

5   8,259
     − 3,716
     _____

6   2,081
     − 1,733
     _____

7 **Stretch Your Thinking** What is the unknown number
in this break-apart drawing? List all the addition and
subtraction problems for the drawing.

_____

_____

_____

6,265

2,948

Subtraction Undoes Addition

Subtract.

1   71,824
− 36,739

2   960,739
− 894,045

3   665,717
− 82,824

4   372,608
− 57,425

5   597,603
− 404,980

6   614,702
− 539,508

7   724,359
− 99,068

8   394,280
− 56,473

In an experiment, a scientist counted how many bacteria grew in several labeled dishes. The table shows how many bacteria were in each dish.

Dish	Number of Bacteria
A	682,169
B	694,154
C	57,026
D	150,895
E	207,121

Solve. Estimate to check.

Show your work.

9 What was the difference between the greatest
number of bacteria and the least number of bacteria?

_____

10 How many more bacteria were in dish A than in dish D?

_____

11 How many fewer bacteria were in dish E than
in the combined dish C and dish D?

_____

Write an equation that shows an estimate of each answer. Then write the exact answer.

1 $503 + 69$ _____

2 $2,825 + 212$ _____

3 $6,190 + 3,858$ _____

Subtract. Show your new groups.

4 $8,760$
    $-\ 1,353$

5 $6,000$
    $-\ 5,258$

6 $5,060$
    $-\ 2,175$

Subtract. Then use addition to check the subtraction. Show your work.

7 $6,355 - 891 =$ _____

8 $8,326 - 1,425 =$ _____

Check: _____

Check: _____

9 **Stretch Your Thinking** Write an addition word problem in which the estimated sum is 14,000.

_____

_____

_____

Solve each problem.

Show your work.

1 Mr. Chase is ordering 249 pencils, 600 sheets of paper, and 190 erasers. How many more sheets of paper than pencils and erasers altogether is Mr. Chase ordering?

_____

2 There were 623 people at the concert on Friday. On Saturday, 287 more people attended the concert than attended on Friday. How many people in all attended the concert on Friday and Saturday?

_____

Add or subtract.

3
$$695$$
$$+\ 487$$

4
$$8,452$$
$$-\ 5,938$$

5
$$5,895$$
$$+\ 9,727$$

6
$$49,527$$
$$-\ 26,088$$

7
$$86,959$$
$$-\ 38,486$$

8
$$39,458$$
$$+\ 98,712$$

9
$$286,329$$
$$+\ 394,065$$

10
$$708,623$$
$$-\ 421,882$$

11
$$952,774$$
$$-\ 613,386$$

Name   Date

Add or subtract.

1 7,982
   − 3,517

2 600,000
   − 399,410

3 138,925
   + 47,316

Subtract. Then use addition to check the subtraction. Show your work.

4 4,652 − 1,593 =

5 30,000 − 26,931 =

6 896,581 − 355,274 =

Check:

Check:

Check:

Subtract.

7 731,285 − 369,114 = _____

8 645,803 − 52,196 = _____

9 **Stretch Your Thinking** Write a two-step problem in which the answer is 130.

_____

_____

_____

_____

Practice Addition and Subtraction

Add or subtract.

1 $12{,}673 - 9{,}717 =$ _____   **2** $8{,}406 + 45{,}286 =$ _____   **3** $2{,}601 - 1{,}437 =$ _____

Answer each question about the information in the table.

Area of the Countries of Central America

Country	Area (square miles)
Belize	8,867
Costa Rica	19,730
El Salvador	8,124
Guatemala	42,042
Honduras	43,278
Nicaragua	49,998
Panama	30,193

4 What is the total area of Guatemala and Honduras?

Show your work.

_____

5 Which two countries have the least area? What is the sum of their areas?

_____

6 Which is greater: the area of Nicaragua or the total area of Costa Rica and Panama?

_____

7 How much greater is the area of Honduras than the area of Guatemala?

_____

Subtract. Then use addition to check the subtraction.

1 $1,500 - 705 =$ _____

2 $9,523 - 8,756 =$ _____

Check: _____

Check: _____

The table shows how many fans attended a team's baseball games at the start of the season. Solve. Estimate to check.

3 How many fewer people attended Game 4 than Game 5?

_____

_____

4 What was the difference between the greatest number of fans and the least number at a game?

_____

_____

Game	Fans
1	68,391
2	42,908
3	9,926
4	35,317
5	46,198

Add or subtract.

5 7,452
    + 3,801

6 2,155
    + 5,890

7 293,635
    − 178,098

8 **Stretch Your Thinking** The equation $32,904 + m = 61,381$ shows that the number of females plus the number of males, m, living in a certain city equals the total population. Write a subtraction equation that represents the same situation. How many males live in this city?

_____

_____

Problem Solving with Greater Numbers

Companies often use bar graphs to present information to the media or stockholders. Data may show how attendance or profits vary at different times of the year, or compare the successes of different divisions or quarters of the year.

1 Research attendance numbers for your favorite amusement park, sporting team, or movie during five different periods of time. Complete the table with your information.

2 Use the grid below to graph the data in your table.

Subtract.

1 $958,299 - 63,419 =$ _____

2 $9,523 - 8,756 =$ _____

Add or subtract.

3
$$\begin{array}{r} 5,191 \\ +273 \\ \hline \end{array}$$

4
$$\begin{array}{r} 13,687 \\ +25,137 \\ \hline \end{array}$$

5
$$\begin{array}{r} 758,194 \\ -6,029 \\ \hline \end{array}$$

Answer each question about the information in the table.

6 What is the total number of miles the trucker drove in the last 2 years?

_____

7 Which is greater, the increase in miles driven between 1998 and 1999 or between 1999 and 2000? What is that increase?

_____

Miles Driven by a Trucker

Year	Miles
1998	75,288
1999	117,391
2000	126,304
2001	87,192
2002	94,386

8 **Stretch Your Thinking** Look at the trucking data in the table for Exercises 6 and 7. How would you round the data to make a bar graph? What scale would you use?

_____

_____