Whole Numbers

Lesson 1.1  Numbers to 10,000,000

Fill in the table headings. Write Tens, Hundreds, Ten Thousands, or Hundred Thousands. Then write the number in word form and in standard form.

1. 

<table>
<thead>
<tr>
<th></th>
<th>Thousands</th>
<th></th>
<th>Ones</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**a.** The number in word form is ________________________________

**b.** The number in standard form is ________________________________

Write each number in standard form.

2. Twenty-eight thousand, one hundred ninety-nine

3. Ninety thousand, thirty-eight

4. Four hundred twelve thousand, six hundred three

5. Eight hundred thousand, five

6. Five hundred seven thousand, seven hundred

7. Six hundred thousand, six hundred
Name: _________________________ Date: ________________

Write each number in word form.

8. 50,680 _________________________

9. 255,430 _________________________

10. 199,303 _________________________

11. 872,900 _________________________

12. 305,072 _________________________

Use all the digits given to form 6-digit whole numbers. Do not start with the digit 0.

8  6  0  3  7  4

13. The least possible number: __________

14. The greatest possible number: __________

15. The least odd number: __________

16. The greatest odd number: __________

17. A number less than four hundred thousand: __________

2 Chapter 1 Lesson 1.1
Fill in the table headings. Write Tens, Hundreds, Ten Thousands, Hundred Thousands, or Millions. Then write the number in word form and in standard form.

18.

<table>
<thead>
<tr>
<th>Ones</th>
<th>Hundreds</th>
<th>Ten Thousands</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

a. The number in word form is __________________________.

b. The number in standard form is __________________________.

Write each number in standard form.

19. Nine million, two hundred seventy thousand, fifty

20. Six million, eighty-four thousand, one hundred one

21. Seven million, six thousand, eight hundred ninety-nine

22. Four million, five hundred two thousand, fifteen

23. Five million, fifty thousand, six hundred two

24. Eight million, four hundred thousand, eighty-five

25. Three million, seven hundred three
Write each number in word form.

26. 8,808,429 ________________________________

27. 3,002,566 ________________________________

28. 5,970,103 ________________________________

29. 2,050,060 ________________________________

30. 4,700,900 ________________________________

Use all the digits given to form 7-digit whole numbers.
Do not start with the digit 0.

31. The least even number: ________________

32. A number with 9 in the thousands place and 5 in the hundreds place:

33. A number greater than 2,000,000 but less than 5,000,000:

34. An even number greater than 6,000,000: ________________
Lesson 1.2  Place Value

Write the value of each digit in the correct box.

1. 

Complete.
In 290,357:

2. the digit 9 is in the _____________ place.

3. the value of the digit 9 is _______________.

4. the digit 9 stands for _______________.

Write the place value of the digit 6 in each number.

<table>
<thead>
<tr>
<th>Number</th>
<th>Place Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>5. 263,148</td>
<td></td>
</tr>
<tr>
<td>6. 312,685</td>
<td></td>
</tr>
<tr>
<td>7. 609,453</td>
<td></td>
</tr>
</tbody>
</table>
Write the value of the digit 5 in each number.

<table>
<thead>
<tr>
<th>Number</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>8. 145,032</td>
<td></td>
</tr>
<tr>
<td>9. 870,526</td>
<td></td>
</tr>
<tr>
<td>10. 502,461</td>
<td></td>
</tr>
</tbody>
</table>

Fill in the blanks.

11. In 980,541, the digit ___________ is in the ten thousands place.
12. In 439,602, the digit 3 is in the _______________ place.
13. In 750,482, the digit 7 is in the _______________ place.
14. In 862,059, the digit 6 stands for _______________.
   It is in the _______________ place.
15. In 423,086, the digit ___________ is in the hundreds place.
   Its value is _______________.

Fill in the blanks.

16. $314,562 = 300,000 + \underline{000} + 4,000 + 500 + 60 + 2$
17. $790,258 = \underline{000} + 90,000 + 200 + 50 + 8$
18. $804,576 = 800,000 + \underline{500} + 70 + 6$
19. $200,000 + 4,000 + 800 + 90 + 1 = \underline{000}$
20. $500,000 + 70,000 + 30 = \underline{000}$
21. $300,000 + 6,000 + 10 = \underline{000}$
Write the value of each digit in the correct box.

22. 

\[ \begin{array}{cccccc}
7 & 8 & 0 & 3 & 5 & 2 & 4 \\
& & & & & & \\
& & & & & & \\
& & & & & & \\
& & & & & & \\
& & & & & & \\
& & & & & & \\
& & & & & & \\
& & & & & & \\
& & & & & & \\
& & & & & & \\
\end{array} \]

Fill in the blanks.

23. In 8,963,750, the digit _________ is in the ten thousands place.
   Its value is ____________.

24. In 4,102,635, the digit 4 is in the ____________ place.

Fill in the blanks.

25. \[ 5,903,780 = 5,000,000 + 900,000 + 3,000 + \underline{\quad} \]

26. \[ 4,728,750 = 4,000,000 + \underline{\quad} + 700 + 50 \]

27. \[ 6,000,000 + 80,000 + 5,000 + 300 + 23 = \underline{\quad} \]

28. \[ 2,000,000 + 700,000 + 500 + 8 = \underline{\quad} \]
Read the clues to find each number.

29. It is a 7-digit number.  
   It has a digit 0.  
   The greatest digit is in the hundred thousands place.  
   The value of the digit 1 is 1,000,000.  
   The digit 6 stands for 6,000.  
   The value of the digit 5 is 5 ones.  
   The digit 8 has a value greater than 700 but less than 1,000.  
   The value of the digit 7 is 7 ten thousands.

   The number is ____________.

30. It is a 6-digit number.  
   The least digit is in the thousands place.  
   The greatest digit is in the ones place.  
   The digit in the tens place is 5 less than the digit in the ones place.  
   The digit in the hundred thousands place is greater than the digit in the tens place but is less than 6.  
   The digit in the ten thousands place is twice the digit in the tens place.  
   The digit 2 stands for 200.

   The number is ____________.
Lesson 1.3  Comparing Numbers to 10,000,000

Circle the greater number.

1.  95,867  or  123,087
2.  625,689  or  625,897
3.  4,306,582  or  4,314,356

Circle the least number.

4.  32,409  320,409  32,049
5.  788,420  798,630  786,980  785,900  799,380

Arrange the numbers in order from least to greatest.

7.  283,500  2,583,000  2,385,000  197,500  1,795,000

8.  8,764,500  8,476,900  8,746,800  895,390  8,593,800

Arrange the numbers in order from greatest to least.

9.  5,296,000  594,287  2,890,670  980,576  5,298,053

10.  3,003,500  303,500  390,300  2,900,800  3,900,100
What is the next number in each pattern? Fill in the blanks.

11. 476,270  477,270  478,270 ...
   a. 477,270 is ______ more than 476,270.
   b. 478,270 is ______ more than 477,270.
   c. ______ more than 478,270 is ______.
   d. The next number in the pattern is ______.

12. 4,500,000  4,480,000  4,460,000 ...
   a. 4,480,000 is ______ less than 4,500,000.
   b. 4,460,000 is ______ less than 4,480,000.
   c. ______ less than 4,460,000 is ______.
   d. The next number in the pattern is ______.

Find the rule. Then complete each number pattern.

13. 405,600  605,600  805,600 ______  ______
   Rule: ____________________________

14. 980,800  965,800  950,800 ______  ______
   Rule: ____________________________

15. 5,241,200  5,291,200  5,341,200 ______  ______
   Rule: ____________________________

16. 1,458,900  1,358,800  1,258,700 ______  ______
   Rule: ____________________________
Lesson 1.4  Rounding and Estimating

Round to the nearest thousand.

1. 3,687 ________  2. 28,480 ________
3. 725,390 ________  4. 299,710 ________

Round each number to the nearest thousand. Then estimate the sum or difference.

5. 9,867 + 4,655  6. 9,978 − 2,361

Estimate the sum or difference by using front-end estimation with adjustment.

7. 5,974 + 6,459  8. 3,999 − 2,499
Round each 4-digit number to the nearest thousand. Then estimate each product.

9. \(7,390 \times 8\)  
10. \(8,589 \times 9\)

Estimate the quotient. Give your answer to the nearest hundred.

11. \(3,725 \div 4\)  
12. \(3,898 \div 8\)

13. \(6,199 \div 7\)  
14. \(5,562 \div 9\)
Solve.

15. On Saturday, 2,832 tourists visited the zoo. On Friday, 1,475 tourists visited the zoo. Estimate the number of tourists who visited the zoo on the two days by first rounding the numbers to the nearest thousand.

16. A fireworks festival attracted a total of 4,342 visitors from Saturday to Friday. The number of visitors who went to the festival was about the same every day. Estimate the number of visitors who went to the festival on Monday.
Solve.

The selling price of a digital camera was $1,499. Kumar sold 4 such cameras.

17. Estimate his total sales by first rounding the price of each camera to the nearest thousand dollars.

18. Estimate his total sales by first rounding the price of each camera to the nearest hundred dollars.

19. Find Kumar’s actual total sales. Is your answer to Exercise 17 or 18 a better estimate?
Put on Your Thinking Cap!

Complete each pattern.

1. 150,000 155,000 165,000 180,000 ________ 225,000
2. 78,000 39,000 19,500 ________ 4,875
3. 15,000 30,000 90,000 360,000 ________ 10,800,000
4. 32,000 8,000 4,000 ________ 500 125
5. 12,000 36,000 18,000 54,000 ________ 81,000

Solve.

6. Karen opens a book and notes the page numbers of the facing pages. The product of the two numbers is 600. What are the page numbers of the facing pages?
You are a Number Investigator. You have two cases for investigation. Find the numbers using the clues.

7. **Case 1**

It is a 7-digit even number. There is no repetition of digits.
The digit 5 is in the thousands place.
The greatest digit is in the millions place.
The digit in the hundred thousands place is twice the digit in the hundreds place.
The digit in the hundreds place is twice the digit in the ones place.
The digit in the tens place is 2 less than the digit in the millions place.
The value of the digit in the ten thousands place is zero.

The number is __________.

8. **Case 2**

It is a 6-digit number. There is no repetition of digits.
It is divisible by 5 and is more than 300,000.
The digit in the hundreds place is 3 more than the digit in the ones place.
The digit in the ten thousands place is 3 times the digit in the hundred thousands place.
The digit in the thousands place is half the value of the digit in the hundreds place.
The difference between the digits in the tens place and in the thousands place is 2.

The number is __________.