

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Chapter  
**1**

# Whole Numbers

## Practice 1 Numbers to 10,000,000

Count on or back by **ten thousands** or **hundred thousands**. Then fill in the blanks.

1. 40,000 50,000 60,000 \_\_\_\_\_

2. 900,000 800,000 700,000 \_\_\_\_\_

Complete the table. Then write the number in standard form and in word form.

3.

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
○○ ○○	○○	○○○ ○○○	○○○	○	○○○ ○○○

	Standard Form	Word Form
4 hundred thousands	400,000	four hundred thousand
ten thousands		
thousands		
hundreds		
ten		
ones		

Number in standard form: \_\_\_\_\_

Number in word form: \_\_\_\_\_

**Write each number in standard form.**

4.

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
• •	• • •	• • • • • • • • •	• • • • • •	• • • • •	• • •

The number is \_\_\_\_\_.

5.

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
• • • • • • • •	• • •	• • • • • •	• • • • •	• •	

The number is \_\_\_\_\_.

6.

eight hundred sixteen thousand, nine hundred forty-three \_\_\_\_\_

First, read the thousands period: eight hundred sixteen thousand — 816,000  
Then, read the remaining period: nine hundred forty-three — 943

7.

six hundred five thousand, five hundred \_\_\_\_\_

8.

one hundred three thousand, thirty-one \_\_\_\_\_

9.

eight hundred seventy thousand, three \_\_\_\_\_

10.

three hundred thousand, twelve \_\_\_\_\_

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**Fill in the headings. Write *Tens*, *Hundreds*, *Ten Thousands*, or *Hundred Thousands*. Then write each number in word form.**

11.

		<b>Thousands</b>			<b>Ones</b>
●		● ● ●	● ● ●	● ● ● ●	● ●

The number is \_\_\_\_\_

\_\_\_\_\_

12.

		<b>Thousands</b>			<b>Ones</b>
● ● ●	● ● ● ●			● ●	●

The number is \_\_\_\_\_

\_\_\_\_\_

**Write each number in word form.**

65,000 — sixty-five thousand  
142 — one hundred forty-two

13.

65,142 \_\_\_\_\_

\_\_\_\_\_

14.

368,400 \_\_\_\_\_

\_\_\_\_\_

**Complete to express each number in word form.**

15.	802,101	eight hundred two thousand, one hundred _____
16.	324,306	three hundred twenty-four _____, three hundred six
17.	150,260	one hundred fifty thousand, _____ hundred sixty
18.	999,198	nine hundred _____ thousand, one hundred _____

**Use the table showing the populations of some cities to answer the questions.**

City	Population
Jacksonville, Florida	773,781
Hyde Park, New York	9,523
Portland, Oregon	538,544
Pittsburgh, Pennsylvania	312,819
Lexington, Massachusetts	30,355
Newport, Rhode Island	26,136

19. Write the population of Pittsburgh in word form.

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20. Which city has the least population? What is its population?

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Name: \_\_\_\_\_

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## Practice 2 Numbers to 10,000,000

Complete the table. Then write the number in standard form and in word form.

1.

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones

	Standard Form	Word Form
<input type="checkbox"/> millions		
<input type="checkbox"/> hundred thousand		
<input type="checkbox"/> ten thousands		
<input type="checkbox"/> thousands		
<input type="checkbox"/> hundreds		
<input type="checkbox"/> tens		
<input type="checkbox"/> ones		

Number in standard form: \_\_\_\_\_

Number in word form: \_\_\_\_\_

**Write the number in standard form and in word form.**

**2.**

<b>Millions</b>	<b>Hundred Thousands</b>	<b>Ten Thousands</b>	<b>Thousands</b>	<b>Hundreds</b>	<b>Tens</b>	<b>Ones</b>

Number in standard form: \_\_\_\_\_

Number in word form: \_\_\_\_\_

**Write each number in standard form.**

**3.** two million, one hundred fifty-six thousand, four \_\_\_\_\_

**4.** five million, two hundred thirty-eight thousand \_\_\_\_\_

**5.** seven million, one hundred fifty thousand \_\_\_\_\_

**6.** six million, sixty thousand, fifty \_\_\_\_\_

**7.** three million, three \_\_\_\_\_

**Write each number in word form.**

**8.** 5,050,000 \_\_\_\_\_

**9.** 8,147,600 \_\_\_\_\_

**10.** 7,230,014 \_\_\_\_\_

**11.** 5,192,622 \_\_\_\_\_

**12.** 9,009,009 \_\_\_\_\_

## Practice 3 Place Value

**Complete.** Use the place-value chart.

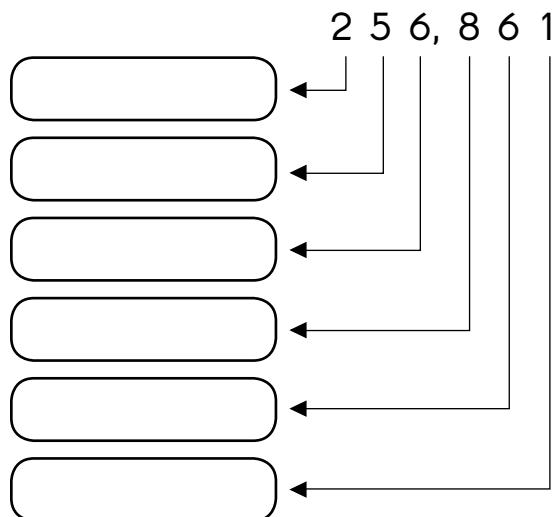
Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
● ● ●	● ● ● ●	● ● ● ● ●	● ●		●
3	4	5	2	0	1

In 345,201:

1. a. the digit 3 stands for \_\_\_\_\_. b. the value of the digit 3 is \_\_\_\_\_.
2. a. the digit 4 stands for \_\_\_\_\_. b. the value of the digit 4 is \_\_\_\_\_.
3. a. the digit 5 stands for \_\_\_\_\_. b. the value of the digit 5 is \_\_\_\_\_.

**Write the value of each digit in the correct box.**

4.



**Complete.**

In 346,812:

5. the digit 3 stands for \_\_\_\_\_.
6. the digit 6 stands for \_\_\_\_\_.

**Write the value of the digit 2 in each number.**

7. 3**2**9,051 \_\_\_\_\_      8. 903,5**2**1 \_\_\_\_\_
9. 71**2**,635 \_\_\_\_\_      10. **2**58,169 \_\_\_\_\_

**Complete.**

11. In 320,187, the digit \_\_\_\_\_ is in the thousands place.
12. In 835,129, the digit 8 is in the \_\_\_\_\_ place.
13. In 348,792, the digit 4 is in the \_\_\_\_\_ place.

**Complete to express each number in expanded form.**

14.  $153,420 = 100,000 + \text{_____} + 3,000 + 400 + 20$
15.  $760,300 = \text{_____} + 60,000 + 300$
16.  $700,000 + 8,000 + 500 + 4 = \text{_____}$
17.  $200,000 + 2,000 + 10 = \text{_____}$

**Complete. Use the place-value chart.**

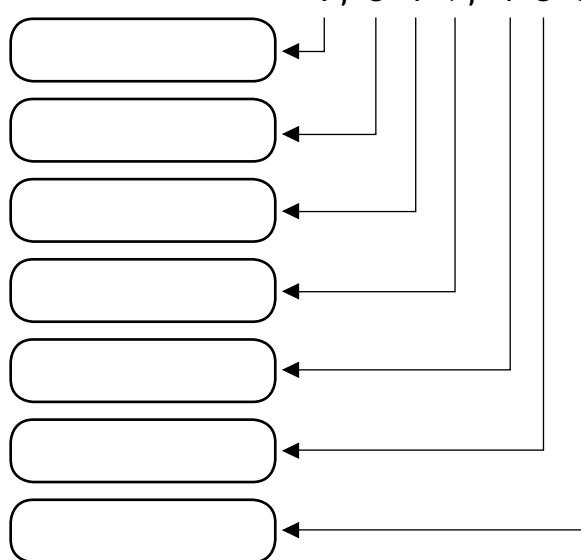
<b>Millions</b>	<b>Hundred Thousands</b>	<b>Ten Thousands</b>	<b>Thousands</b>	<b>Hundreds</b>	<b>Tens</b>	<b>Ones</b>
1	5	0	8	3	6	9

In 1,508,369:

- 18.** a. the digit 1 stands for \_\_\_\_\_.  
 b. the value of the digit 1 is \_\_\_\_\_.
- 19.** a. the digit 8 stands for \_\_\_\_\_.  
 b. the value of the digit 8 is \_\_\_\_\_.
- 20.** the digit 0 is in the \_\_\_\_\_ place.

**Write the value of each digit in the correct box.**

- 21.** 7, 5 1 9, 4 5 6



**Complete.**

22. In 5,420,000, the digit 5 is in the \_\_\_\_\_ place.
23. In 1,077,215, the digit in the hundred thousands place is \_\_\_\_\_.
24. In 9,400,210, the digit 9 stands for \_\_\_\_\_.

**Complete to express each number in expanded form.**

25.  $4,130,000 = \text{_____} + 100,000 + 30,000$
26.  $6,123,750 = 6,000,000 + 100,000 + 20,000 + 3,000 + 700 + \text{_____}$
27.  $7,550,100 = 7,000,000 + \text{_____} + 50,000 + 100$
28.  $5,000,000 + 200,000 + 7,000 + 70 = \text{_____}$
29.  $3,000,000 + 20,000 + 9,000 + 100 + 5 = \text{_____}$

**Read the clues to find the number.**

It is a 7-digit number.  
The value of the digit 7 is 700.  
The greatest digit is in the millions place.  
The digit 1 is next to the digit in the millions place.  
The value of the digit 8 is 8 tens.  
The value of the digit 3 is 3 ones.  
The digit 5 is in the thousands place.  
The digit 6 stands for 60,000.

30. The number is \_\_\_\_\_.

## Practice 4 Comparing Numbers to 10,000,000

**Complete the place-value chart. Then use it to compare the numbers.**

1. Which is greater, 197,210 or 225,302?

Compare the values of the digits, working from left to right.

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones

\_\_\_\_\_ hundred thousands is greater than \_\_\_\_\_ hundred thousand.

So, \_\_\_\_\_ is greater than \_\_\_\_\_.

**Fill each  with > or <.**

2.  $128,758 \bigcirc 74,906$

3.  $523,719 \bigcirc 523,689$

4.  $89,000 \bigcirc 712,758$

5.  $635,002 \bigcirc 635,100$

**Circle the least number and cross out the greatest number.**

6. 375,061    172,503    127,203    157,203    371,560    371,605

**Order the numbers from least to greatest.**

7. 739,615    795,316    315,679    615,379

\_\_\_\_\_

8. 245,385    805,342    97,632    300,596

\_\_\_\_\_

**Compare the numbers. Use the place-value chart to help you.**

**9.**

<b>Millions</b>	<b>Hundred Thousands</b>	<b>Ten Thousands</b>	<b>Thousands</b>	<b>Hundreds</b>	<b>Tens</b>	<b>Ones</b>
8	0	7	9	7	2	0
6	9	9	0	3	9	5

\_\_\_\_\_ millions is less than \_\_\_\_\_ millions.

\_\_\_\_\_ is less than \_\_\_\_\_.

**10.**

<b>Millions</b>	<b>Hundred Thousands</b>	<b>Ten Thousands</b>	<b>Thousands</b>	<b>Hundreds</b>	<b>Tens</b>	<b>Ones</b>
1	0	8	3	9	5	2
5	0	9	6	3	5	7

\_\_\_\_\_ is greater than \_\_\_\_\_.

**11.**

<b>Millions</b>	<b>Hundred Thousands</b>	<b>Ten Thousands</b>	<b>Thousands</b>	<b>Hundreds</b>	<b>Tens</b>	<b>Ones</b>
6	4	1	2	5	8	6
6	4	3	8	6	7	1

\_\_\_\_\_ is greater than \_\_\_\_\_.

Fill each  with > or <.

12. 4,015,280  2,845,000

13. 999,098  1,000,000

14. 2,007,625  2,107,625

15. 7,405,319  905,407

Order the numbers from greatest to least.

16. 2,432,000 480,000 2,720,000 3,190,000

---

17. 513,900 3,150,000 913,000 2,020,000

---

Find the missing numbers.

18. 738,561 938,561 1,138,561 ...

a. 938,561 is \_\_\_\_\_ more than 738,561.

b. 1,138,561 is \_\_\_\_\_ more than 938,561.

c. \_\_\_\_\_ more than 1,138,561 is \_\_\_\_\_.

d. The next number in the pattern is \_\_\_\_\_.

19. 4,655,230 4,555,230 4,455,230 ...

a. 4,555,230 is \_\_\_\_\_ less than 4,655,230.

b. 4,455,230 is \_\_\_\_\_ less than 4,555,230.

c. \_\_\_\_\_ less than 4,455,230 is \_\_\_\_\_.

d. The next number in the pattern is \_\_\_\_\_.

**Find the rule. Then complete the number patterns.**

20. 230,180 231,180 232,180 \_\_\_\_\_

Rule: \_\_\_\_\_

21. 850,400 845,400 840,400 \_\_\_\_\_

Rule: \_\_\_\_\_

22. 2,650,719 3,650,719 4,650,719 \_\_\_\_\_

Rule: \_\_\_\_\_

23. 6,298,436 5,198,436 4,098,436 \_\_\_\_\_

Rule: \_\_\_\_\_

**Complete.**

24.  $5,083,000 = 5,000,000 + \underline{\hspace{2cm}} + 3,000$

M

25.  $5,000,000 + 600,000 + 2,000 = \underline{\hspace{2cm}}$

T

26. Which is greater, 509,900 or 562,000? \_\_\_\_\_

S

27. Which is less, 1,020,000 or 1,002,000? \_\_\_\_\_

A

28. The value of the digit 1 in 7,120,000 is \_\_\_\_\_.

P

What goes around the world but remains in one corner?

Write the letters that match the answers below to find out.

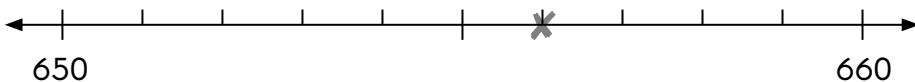
\_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_  
562,000    5,602,000    1,002,000    80,000    100,000

## Practice 5 Rounding and Estimating

**Mark an X to show where each decimal is located on the number line.  
Then round each number.**

*Example*

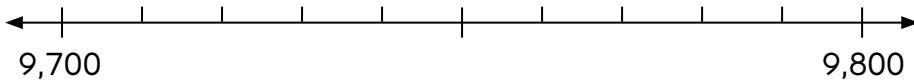
656



656 rounded to the nearest ten is 660.

1.

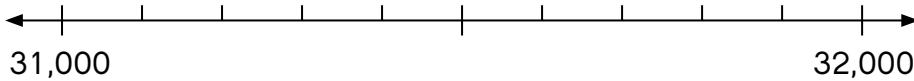
9,709



9,709 rounded to the nearest hundred is \_\_\_\_\_.

2.

31,600



31,600 rounded to the nearest thousand is \_\_\_\_\_.

**Round each number to the nearest thousand.**

3. 5,637 \_\_\_\_\_

4. 9,541 \_\_\_\_\_

5. 1,399 \_\_\_\_\_

6. 72,245 \_\_\_\_\_

7. 473,075 \_\_\_\_\_

8. 69,547 \_\_\_\_\_

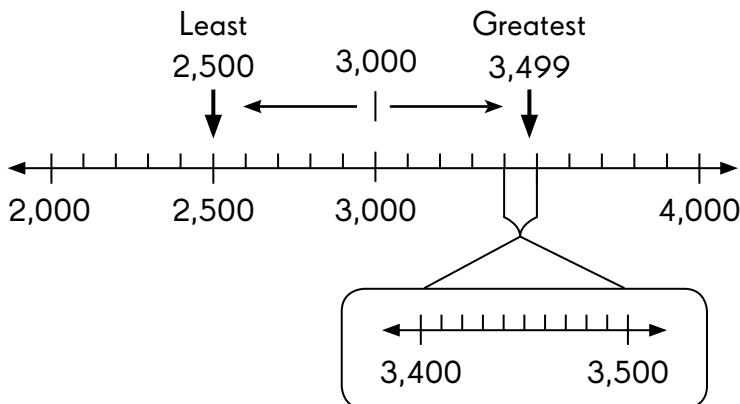
9. 20,100 \_\_\_\_\_

10. 756,715 \_\_\_\_\_

**Answer each question. Use the number line to help you.**

*Example*

Rounding to the nearest thousand, what is the least and the greatest number that rounds to 3,000?



Least number: 2,500

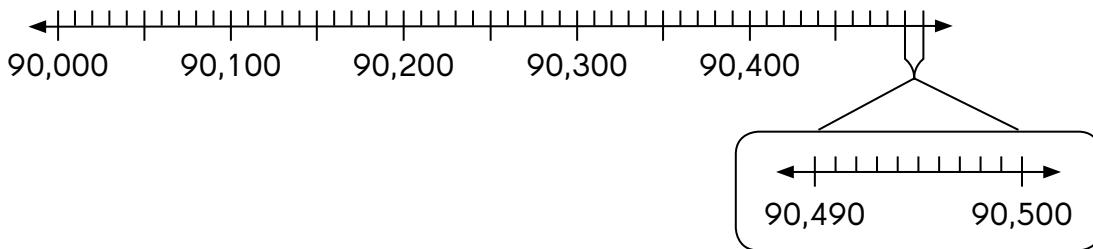
Greatest number: 3,499

- 11.** Rounding to the nearest thousand, what is

- a. the least number that rounds to 5,000?



- b. the greatest number that rounds to 90,000?



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**Round each number to the nearest thousand. Then estimate the sum.**

*Example* \_\_\_\_\_

$$9,286 + 5,703$$

9,286 rounds to 9,000.

5,703 rounds to 6,000.

$$9,000 + 6,000 = 15,000$$

**12.**       $6,789 + 4,200$

**13.**       $7,264 + 7,153$

**14.**       $4,885 + 6,075$

**15.**       $3,105 + 9,940$

**16.**       $7,083 + 2,607$

**Round each number to the nearest thousand. Then estimate the difference.**

*Example* \_\_\_\_\_

$$8,156 - 6,109$$

*8,156 rounds to 8,000.*

*6,109 rounds to 6,000.*

$$8,000 - 6,000 = 2,000$$

**17.**       $4,924 - 4,127$

**18.**       $7,105 - 3,940$

**19.**       $4,885 - 1,075$

**20.**       $3,522 - 2,815$

**21.**       $6,480 - 1,397$

**Use front-end estimation with adjustment to estimate each sum.***Example* \_\_\_\_\_

$$1,963 + 3,290 + 7,837$$

$$\begin{aligned}1,000 + 3,000 + 7,000 \\= 11,000\end{aligned}$$

$$\begin{aligned}900 + 200 + 800 \\= 1,900\end{aligned}$$

*To the nearest thousand:*

$$1,900 \rightarrow 2,000$$

$$11,000 + 2,000 = 13,000$$

**23.**  $7,823 + 6,848 + 3,310$

**22.**  $2,541 + 6,061 + 1,681$

**24.**  $4,197 + 8,936 + 2,226$

**Use front-end estimation with adjustment to estimate each difference.**

*Example*

$$2,943 - 1,272$$

$$2,000 - 1,000$$

$$= 1,000$$

$$900 - 200 = 700$$

To the nearest thousand:

$$700 \rightarrow 1,000$$

$$1,000 + 1,000 = 2,000$$

**25.**  $6,770 - 3,081$

**26.**  $8,764 - 3,589$

**27.**  $7,802 - 4,396$

**Use front-end estimation with adjustment to estimate each difference.***Example* \_\_\_\_\_

$$7,594 - 2,831$$

$$7,000 - 2,000 = 5,000$$

$$800 - 500 = 300$$

*To the nearest thousand:*

$$300 \rightarrow 0$$

$$5,000 - 0 = 5,000$$

**28.**  $5,780 - 3,962$

**29.**  $9,119 - 4,852$

**30.**  $8,254 - 4,836$

**Estimate each product.***Example* \_\_\_\_\_

$$4,512 \times 2$$

*4,512 rounds to 5,000.*

$$5,000 \times 2 = 10,000$$

**32.**  $2,521 \times 5$

**31.**  $3,765 \times 7$

**33.**  $5,108 \times 6$

**34.**  $8,497 \times 9$

**35.**  $6,060 \times 3$

**Estimate each quotient.***Example* \_\_\_\_\_

$$2,786 \div 5$$

*2,786 rounds to 3,000.*

$$3,000 \div 5 = 600$$

**36.**  $6,509 \div 7$

Look for compatible numbers.

$$2,786 \div 5$$



Which number is nearer to 2,786?

**37.**  $5,512 \div 6$

**38.**  $2,785 \div 3$

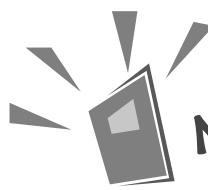
**39.**  $6,287 \div 8$

**40.**  $2,963 \div 9$



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## Math Journal

1. Kim and Dominic found the sum of 8,642 and 9,328.

Kim's answer is 17,970.

Dominic's answer is 1,890.

One of their answers is incorrect.

Show how you could use estimation to check which answer is reasonable.

- 2.** Samantha found these quotients.

**a.**  $7,986 \div 8 = 998 \text{ R } 2$       **b.**  $2,659 \div 3 = 264 \text{ R } 3$

Show how you could check whether the quotients are reasonable.  
State in each case whether the quotient is reasonable.

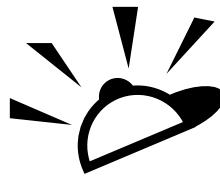
- 3.** Lisa was asked to round

- a.** 763 to the nearest hundred.  
**b.** 3,730 to the nearest thousand.

Lisa rounded 763 to 700 and 3,730 to 3,000. What mistakes did she make?  
What should the correct answer in each case have been?

Name: \_\_\_\_\_

Date: \_\_\_\_\_



## Put On Your Thinking Cap!



### Challenging Practice

**Arrange the digits to form three 6-digit numbers that will round to 756,000 when rounded to the nearest thousand.**

2

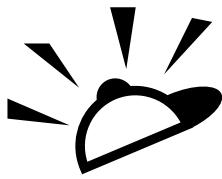
5

5

6

7

8



# 'Put On Your Thinking Cap!



# **Problem Solving**

- 1.** What number can you subtract from 3,200 such that their difference is a 4-digit number that has:  
the digit 2 in the thousands place,  
the digit 3 in the hundreds place and  
zeros in the tens and ones place?

**2.** A 3-digit number when divided by 5 has an even quotient. When it is divided by 3, it also has an even quotient.

**a.** What is the digit in the ones place?

**b.** What can the number be?