

Chapter



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
<input type="text" value="4"/> hundred thousands	400,000	four hundred thousand
<input type="text"/> ten thousands		
<input type="text"/> thousands		
<input type="text"/> hundreds		
<input type="text"/> ten		
<input type="text"/> 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 _____

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

11.

		Thousands			Ones
●		●● ●●	●●●	●●● ●●●	●●

The number is _____

12.

		Thousands			Ones
●● ●●●	●●● ●●●			●●	●

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.

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

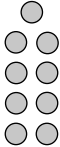






Name: _____

Date: _____

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="text"/> millions		
<input type="text"/> hundred thousand		
<input type="text"/> ten thousands		
<input type="text"/> thousands		
<input type="text"/> hundreds		
<input type="text"/> tens		
<input type="text"/> ones		

Number in standard form: _____

Number in word form: _____

Write the number in standard form and in word form.

2.

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
● ● ●	● ●	● ● ● ●				

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.

2 5 6, 8 6 1

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**21 _____
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.

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
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. $4,130,000 = \underline{\hspace{2cm}} + 100,000 + 30,000$
26. $6,123,750 = 6,000,000 + 100,000 + 20,000 + 3,000 + 700 + \underline{\hspace{2cm}}$
27. $7,550,100 = 7,000,000 + \underline{\hspace{2cm}} + 50,000 + 100$
28. $5,000,000 + 200,000 + 7,000 + 70 = \underline{\hspace{2cm}}$
29. $3,000,000 + 20,000 + 9,000 + 100 + 5 = \underline{\hspace{2cm}}$

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. $128,758$ $74,906$

3. $523,719$ $523,689$

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

5. $635,002$ $635,100$

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.

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
8	0	7	9	7	2	0
6	9	9	0	3	9	5

_____ millions is less than _____ millions.

_____ is less than _____.

10.

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

_____ is greater than _____.

11.

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
6	4	1	2	5	8	6
6	4	3	8	6	7	1

_____ is greater than _____.

Name: _____

Date: _____

Fill each \bigcirc with $>$ or $<$.

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

13. 999,098 \bigcirc 1,000,000

14. 2,007,625 \bigcirc 2,107,625

15. 7,405,319 \bigcirc 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. $5,083,000 = 5,000,000 + \text{_____} + 3,000$

(M)

25. $5,000,000 + 600,000 + 2,000 = \text{_____}$

(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.

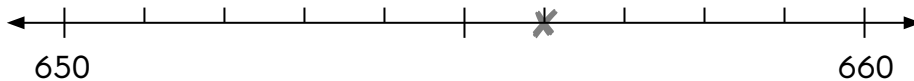
562,000 5,602,000 1,002,000 80,000 100,000

Practice 5 Rounding and Estimating

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

Example

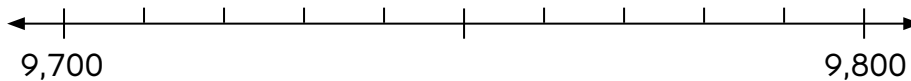
656



656 rounded to the nearest ten is 660.

1.

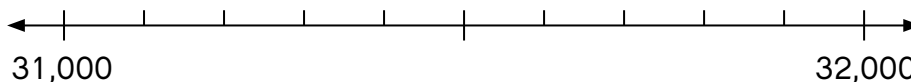
9,709



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 _____

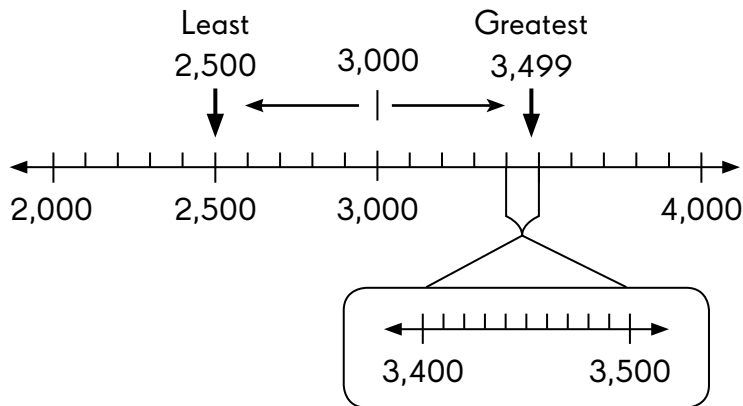
9. 20,100 _____

10. 756,715 _____

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

Example

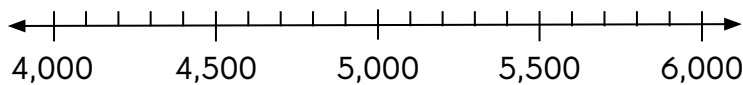
Rounding to the nearest thousand, what is the least and the greatest number that rounds to 3,000?



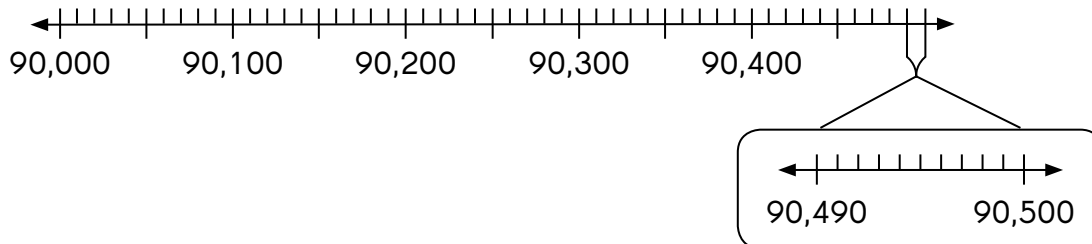
Least number: 2,500

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?



Name: _____

Date: _____

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. $6,480 - 1,397$

Name: _____

Date: _____

Use front-end estimation with adjustment to estimate each sum.

Example

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

$$1,000 + 3,000 + 7,000 \\ = 11,000$$

$$900 + 200 + 800 \\ = 1,900$$

To the nearest thousand:
 $1,900 \rightarrow 2,000$

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

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

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

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.

$$2,786 \div 5 \begin{cases} \rightarrow 2,500 \div 5 \\ \rightarrow 3,000 \div 5 \end{cases}$$

Which number is nearer to 2,786?

37. $5,512 \div 6$

38. $2,785 \div 3$

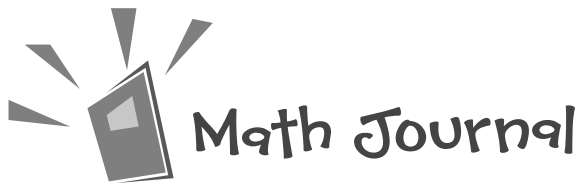
39. $6,287 \div 8$

40. $2,963 \div 9$



Name: _____

Date: _____



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

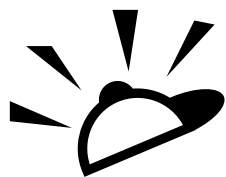
a. 763 to the nearest hundred.

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

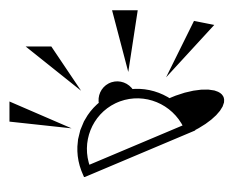
5

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?