

Review What You Know!

Vocabulary

Choose the best term from the box.

- digits
- place value
- period
- whole numbers

1. ? are the symbols used to show numbers.
2. A group of 3 digits in a number is a ?.
3. ? is the position of a digit in a number that is used to determine the value of the digit.

Adding Whole Numbers

Find each sum.

4. $800 + 90 + 2$
5. $3,000 + 400 + 50$
6. $10,000 + 2,000 + 60 + 1$
7. $37 + 85$
8. $124 + 376$

Comparing

Compare. Use $<$ or $>$.

9. $869 \bigcirc 912$
10. $9,033 \bigcirc 9,133$
11. $1,338 \bigcirc 1,388$
12. $7,325 \bigcirc 7,321$

Place Value

13. **Writing to Explain** In the number 767, does the first 7 have the same value as the final 7? Why or why not?

3

How would you compare the surface area of the Earth to the surface area of the Moon? You will find out in Lesson 1-2.

4

The longest stick insect in the world lives in Borneo. How long is the Borneo stick insect? You will find out in Lesson 1-3.



NS 1.1 Estimate, round, and manipulate very large (e.g. millions) and very small (e.g. thousandths) numbers.

Also **NS 1.0, Grade 4**

Place Value

How can you read and write large numbers?

A place-value chart is helpful in reading and writing a number such as 1,600,000,000. The **digits** 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9 are used to write numbers. The place of a digit in a number tells you its **value**.



It would take about 1,600,000,000 quarters laid end-to-end to circle the world at the equator one time.

Guided Practice*

Do you know **HOW?**

In **1** through **3**, write each number in standard form.

- forty billion, forty-eight million
- $90,000,000,000 + 5,000,000 + 300$
- six billion, two hundred million, twelve thousand, six

Do you **UNDERSTAND?**

- Look at the number in the example at the top. In what place is the digit 6? What is its value?
- In which period does the 1 occur on the place-value chart? How does the period name help you read a large number?

Independent Practice

Write each number in word form.

- 7,123
- 18,345
- 10,010,468
- 300,014,000,056

Write each number in standard form.

- $8,000,000 + 300 + 9$
- $60,000,000 + 10,000 + 20 + 3$
- $114,000,000,000 + 70,000 + 8,000 + 7$
- $50,000,000,000 + 200,000 + 30,000$

Write each number in expanded form.

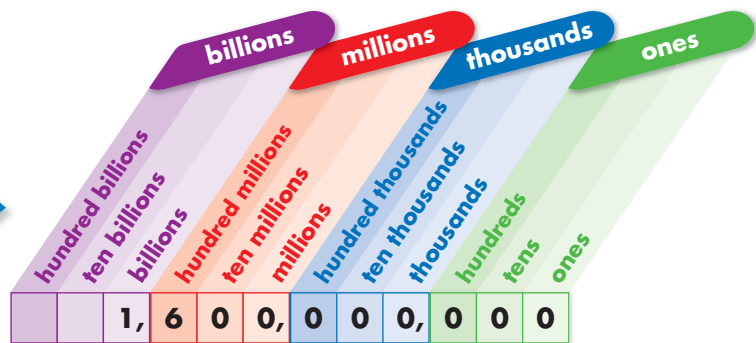
- 670,200,640
- 1,000,102,200
- 85,000,011,000

What is the value of the underlined digit in each number?

- 67,100
- 6,800,000



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1 is in the billions place.
Its value is 1,000,000,000

Standard form:

1,600,000,000

Expanded form:

1,000,000,000 + 600,000,000

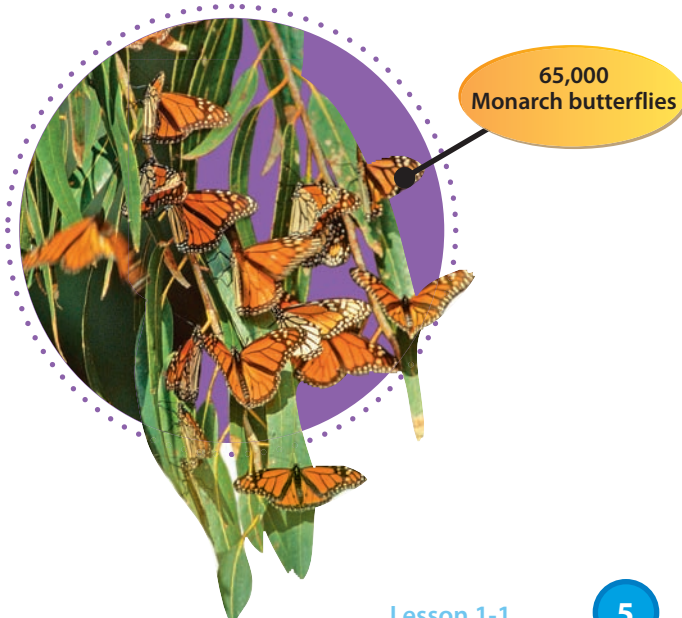
Word form:

one billion, six hundred million

Problem Solving

- The Milky Way Galaxy has at least two hundred billion stars. Write this number in standard form.
- Janet purchased 3 T-shirts and 2 blouses. Each T-shirt cost \$12 and each blouse cost \$23. What was the total cost of Janet's purchase?
- In a recent U.S. Census, California's population was 33,871,648. What is California's population after
 - an increase of 100,000.
 - an increase of 1,000,000.
 - a decrease of 10,000.
- Each October, millions of monarch butterflies migrate south from as far north as the Canadian Rockies, to locations in California and Mexico. About 65,000 come to stay the winter in Pacific Grove, California. Write 65,000 in word form.
- What is the value of the underlined digit in 90,805,001,021?

A 5,000	C 500,000
B 50,000	D 5,000,000
- Neptune is 4,498,252,900 km from the Sun. Write this number in expanded form.
- Number Sense** Write three different 10-digit numbers that have a 7 in the millions place.
- Writing to Explain** For the standard form of two billion, three hundred fifty thousand, four, Danielle wrote 2,350,400,000. What error did she make? What is the correct standard form of the number?



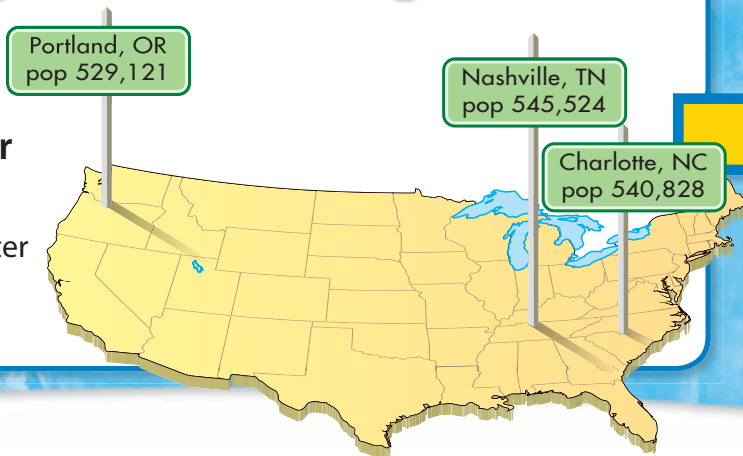


NS 1.0 Students compute with very large and very small numbers, positive integers, decimals, and fractions and understand the relationship between decimals, fractions, and percents. They understand the relative magnitudes of numbers.

Comparing and Ordering Whole Numbers

How can you compare and order whole numbers?

Which city has the greater population, Charlotte or Nashville?



Another Example How do you order numbers?

Order the cities by their populations from greatest to least. To order whole numbers, line up the digits by place value. Start from the left and compare digits until they are different.

Step 1

Write the numbers. $545,524$ ← greatest
Line up the places. $540,828$
Begin at the left $529,121$
and compare.

Step 2

Look at the two remaining numbers. $540,828$ ← greater
Compare. $529,121$

Step 3

Write the numbers from greatest to least. $545,524$ $540,828$ $529,121$

In order of their populations from greatest to least, the cities are Nashville, Charlotte, and Portland.

Explain It

1. Explain why 89,010,000 is greater than 89,000,101.
2. How can you order three whole numbers, each with a different number of digits, without comparing digits?

Step 1

Line up the places. $545,524$
 $540,828$

Begin at the left.

Compare.

Use $>$ for greater than.

Use $<$ for less than.

Step 2

Find the first place where the digits are different. $545,524$
 $540,828$

Compare $5 > 0$

Think 5 thousands $>$ 0 thousands

So, $545,524 > 540,828$. Nashville has a greater population than Charlotte.

Guided Practice***Do you know HOW?**

Copy and complete. Write $<$, $>$ or $=$ for each \bigcirc .

- $9,445,000 \bigcirc 10,000,000$
- $496,256,001 \bigcirc 496,155,001$
- $20,003,888,065 \bigcirc 20,003,868,001$

Do you UNDERSTAND?

- Writing to Explain** Why do you compare numbers beginning from the left after you line them up by place value?
- Long Beach has a population of 491,564 and Fresno has a population of 464,727. Which city has a greater population?

Independent Practice

Copy and complete. Write $<$, $>$ or $=$ for each \bigcirc .

- $3,456 \bigcirc 3,543$
- $98,325 \bigcirc 98,325$
- $4,701,045,756 \bigcirc 4,701,045$
- $29,374,087,210 \bigcirc 28,124,087,210$
- $6,012,907,000 \bigcirc 6,012,907,000$
- $1,790,023,901 \bigcirc 1,090,023,901$
- $990,148,632,109 \bigcirc 990,149,632,109$
- $9,999 \bigcirc 10,000$
- $789,124 \bigcirc 789,300$
- $3,000,010 \bigcirc 3,000,000,010$
- $13,059 \bigcirc 9,898$
- $8,937,051 \bigcirc 8,937,501$
- $45,034,521 \bigcirc 45,034,251$

Independent Practice

Order from greatest to least.

19. 65,081,127 7,000,128 9,910,001
20. 90,459,012,045 91,459,012,045 90,459,010,045
21. 15,100,000,022 1,510,000,022 10,010,899,002
22. 186,347,987 100,389,120 18,121,817 1,500,987

Problem Solving

23. **Number Sense** Write three numbers that are greater than 154,000 but less than 155,000.
24. The U.S. Postal Service delivers about 212,000,000,000 pieces of mail every year. Which digit is in the ten billions place?
25. **Writing to Explain** Here is how Marek ordered three numbers from least to greatest:
870,990; 4,970,070; 1,426,940
- What mistake did Marek make?
Explain how to correct his mistake.
26. Four brothers each bought a \$9 movie ticket and a \$4 bag of popcorn. Bottled water cost \$2. Together, the brothers had \$60. How much was left?
27. **Algebra** Find all the digits that can replace the missing digit to make this comparison true.
 $496, \square 56,200 > 496,745,310$
28. Which of the numbers below is the greatest?
9,781 9,178 9,817
9,187 8,971
- A 9,178 C 9,781
B 9,817 D 8,971
29. Glory Bicycle Company made \$589,029 in sales. Right Bicycles made \$590,011. Coastal Bikes made more than Glory Bicycle Company, but less than Right Bicycles. How much did Coastal Bikes make?
- A \$589,020 C \$590,101
B \$589,300 D \$590,100
30. The surface area of the moon is 37,900,000 square kilometers. Which has a larger surface area?
31. **Reasoning** If a number is greater than 800,000,000,000 but less than 801,000,000,000, what digit will be in the billions place?



The surface of Earth is 510,066,000 square kilometers.

Mixed Problem Solving

For 1 through 4, use the table at the right.

1. By how much did the United States population increase from 1790 to 1820?
2. What is the difference between the population of the United States in 1850 and 1790?
3. Which decade had the greatest growth in population?
4. Which decade had the least amount of growth in population?

Data

Census	Population
1790	3,929,214
1800	5,308,483
1810	7,239,881
1820	9,638,453
1830	12,860,702
1840	17,063,353
1850	23,191,876

For 5 through 8, use the table at the right.

5. Ireland had 143,000 immigrants come to the U.S. before 1790. Which country had more immigrants than Ireland?
6. The table lists the number of immigrants from greatest to least. The number of immigrants from Italy before 1790 was 143,500. Where does Italy belong in the table?

Data

England	230,000
Ireland	143,000
Germany	103,000
Scotland	48,500

7. How many more immigrants came from Germany than Scotland?
8. Were there more immigrants from Germany and Scotland or from England?
9. **Strategy Focus** Solve using the strategy, Try, Check, and Revise. Jake bought 2 items that cost a total of \$24. One item cost \$2 more than the other. What was the cost of each item?



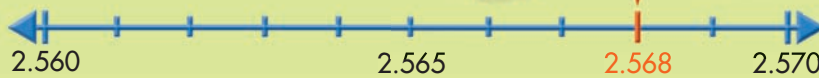
NS 1.1 Estimate, round, and manipulate very large (e.g. millions) and very small (e.g. thousandths) numbers.

Also **NS 1.0, Grade 4**

Decimal Place Value

How can you represent decimals?

Jessie bought 2.568 pounds of horned melon. What are some different ways to show 2.568?



Another Example What are equivalent decimals?

Equivalent decimals name the same amount. Name two other decimals equivalent to 1.4.

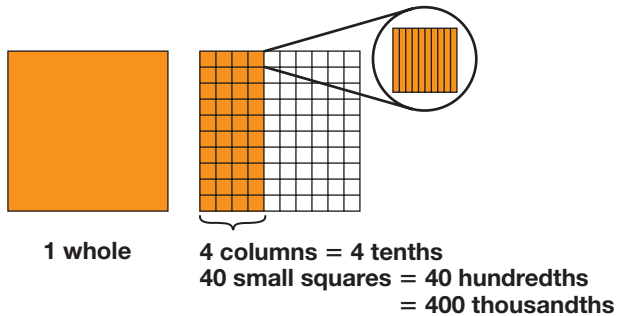
One and four tenths have 1 and 40 hundredths.

So $1.4 = 1.40$.

One and four tenths have 1 and 400 thousandths.

So $1.4 = 1.400$.

So $1.4 = 1.40 = 1.400$.



Guided Practice*

Do you know HOW?

Write the word form for each number and tell the value of the underlined digit.

1. 4.737

2. 9.806

Write each number in standard form.

3. $6 + 0.6 + 0.03 + 0.007$

4. four and sixty-eight hundredths

Write two decimals that are equivalent to the given decimal.

5. 3.700

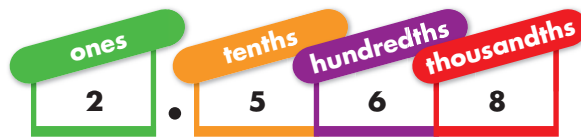
6. 5.60

Do you UNDERSTAND?

- Writing to Explain** The number 3.453 has two 3s. Why does each 3 have a different value?
- How do you read the decimal point in word form?
- José finished a race in 2.6 hours and Pavel finished the same race in 2.60 hours. Which runner finished the race first?



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Standard form: 2.568

The 6 is in the hundredths place. Its value is 0.06.

Expanded form: $2 + 0.5 + 0.06 + 0.008$

Word form: two and five hundred sixty-eight thousandths

Independent Practice

Write the word form for each number and tell the value of the underlined digit.

10. 2.300

11. 9.027

12. 1.982

13. 6.17

Write each number in standard form.

14. two and six hundred thousandths

15. five and one hundred four thousandths

16. $3 + 0.3 + 0.009$

17. $9 + 0.2 + 0.04$

18. $7 + 0.6 + 0.05 + 0.007$

Write two decimals that are equivalent to the given decimal.

19. 2.200

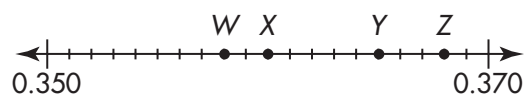
20. 8.1

21. 9.50

Problem Solving

22. **Writing to Explain** Kay is buying juice at the market. She has \$9 and each bottle of juice costs \$2. Does she have enough money to buy 5 bottles of juice? Explain.

23. Which point on the number line below best represents 0.368?



A W B X C Y D Z

24. The Borneo stick insect has a total length including legs, of 21.5 inches. Write 21.5 in word form.

25. Worker leafcutter ants can measure 0.5 inches. Name two decimals that are equivalent to 0.5.

26. **Writing to Explain** Why are 7.63 and 7.630 equivalent?

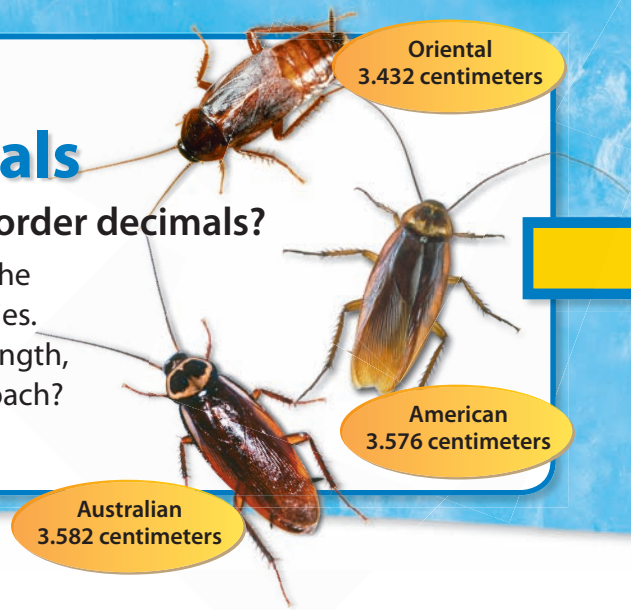


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Comparing and Ordering Decimals

How can you compare and order decimals?

Scientists collected and measured the lengths of different cockroach species. Which cockroach had the greater length, the American or the Oriental cockroach? Use these three steps to find out.



Another Example How can you order decimals?

Order the cockroaches from least to greatest length. Use the three steps below to help you.

Step 1

Write the numbers, lining up the decimal points. Start at the left. Compare digits of the same place-value.

3.576
3.432
3.582

3.432 is the least.

Step 2

Write the remaining numbers, lining up the decimal points. Start at the left. Compare.

3.576
3.582

3.582 is greater.

Step 3

Write the numbers from least to greatest.

3.432, 3.576, 3.582

In order of their lengths from least to greatest, the cockroaches are the Oriental, the American, and the Australian.

Guided Practice*

Do you know HOW?

Compare the two numbers. Write $>$, $<$, or $=$ for each \bigcirc .

1. $3.692 \bigcirc 3.697$ 2. $7.216 \bigcirc 7.203$

Order these numbers from least to greatest.

3. 5.540, 5.631, 5.625, 5.739
4. 0.675, 1.529, 1.35, 0.693

Do you UNDERSTAND?

5. Write a number that is greater than 4.508 but less than 4.512.
6. Scientists measured a Madeira cockroach and found it to be 3.438 cm long. If they were ordering the lengths of the cockroaches from least to greatest, between which two cockroaches would the Madeira cockroach belong?

Step 1

Line up the decimal points.

Start at the left.

Compare digits of the same place-value.

3.576

3.432

Step 2

Find the first place where the digits are different.

3.576

3.432

Step 3

Compare.

$5 > 4$

Think $0.5 > 0.4$

So, $3.576 > 3.432$.

The American cockroach is longer than the Oriental cockroach.

Independent Practice

Copy and complete. Write $>$, $<$, or $=$ for each \bigcirc .

7. $0.890 \bigcirc 0.89$

8. $5.733 \bigcirc 5.693$

9. $9.707 \bigcirc 9.717$

10. $4.953 \bigcirc 4.951$

11. $1.403 \bigcirc 1.4$

12. $3.074 \bigcirc 3.740$

Order from least to greatest.

13. 2.912, 2.909, 2.830, 2.841

14. 8.541, 8.314, 8.598, 8.8

Order from greatest to least.

15. 5.132, 5.123, 5.312, 5.231

16. 62.905, 62.833, 62.950, 62.383

Problem Solving

17. **Writing to Explain** Why do you need to line up the decimal points before comparing and ordering numbers with decimals?
18. Judith wants to buy her mother flowers. Judith earns \$4 a week doing chores. If each flower costs \$2, how many flowers can Judith buy her mother if she saves for three weeks?
19. There are five types of grains of sands: coarse, very coarse, medium, fine, and very fine. A grain of fine sand can have a diameter of 0.125 millimeters.

Which number is less than 0.125?

- A 0.5 C 0.13
 B 0.2 D 0.12



MR 1.1 Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, sequencing and prioritizing information, and observing patterns. Also **MR 1.0, NS 1.1**

Problem Solving

Look for a Pattern

There are patterns in decimal number charts. Continue the pattern to label the other squares.

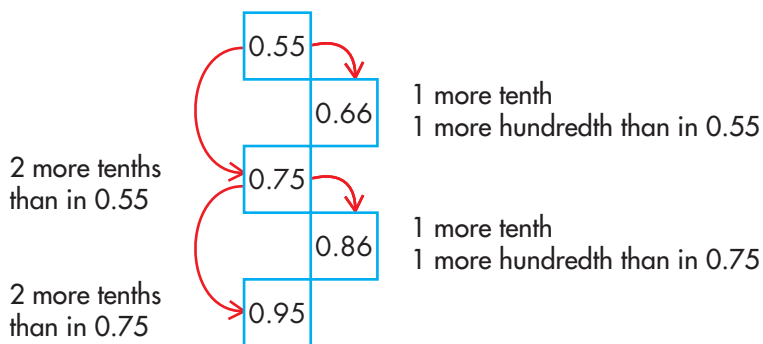
0.01	0.02	0.03				0.08		0.1
				0.15	0.16		0.19	
							0.29	
	0.32		0.34			0.37		

Another Example

In this decimal number chart, what are the patterns in the diagonals?

0.55	

Using the same system as above, you could fill in the diagonals of a decimal number chart.


Explain It

- If the grid above were extended by 2 cells in the same design, what decimals would be used to complete the grid?

What are the missing decimals?

0.01

As you work with vertical columns, you will see the tenths increase by 1 and the hundredths stay the same as you move down.

0.01
0.11
0.21
0.31

What are the missing decimals?

			0.29	
--	--	--	------	--

Moving from left to right, tenths are the same in each row except for the last number; the hundredths increase by 1.

0.26	0.27	0.28	0.29	0.30
------	------	------	------	------

Guided Practice*

Do you know HOW?

In **1** and **2**, determine the patterns, and then complete the grids.

1.

0.42

2.

0.16

Do you UNDERSTAND?

- In a completed decimal chart, look at the first row, which begins 0.01, 0.02. If Rene were to create a thousandths table, what two numbers would immediately follow 0.001?
- Write a real-world problem that you could solve by looking for a pattern.

Independent Practice

In **5** and **6**, determine the patterns, and then complete the grids.

5.

		0.14

6.

			0.87	

Stuck? Try this....

- What do I know?
- What am I asked to find?
- What diagram can I use to help understand the problem?
- Can I use addition, subtraction, multiplication, or division?
- Is all of my work correct?
- Did I answer the right question?
- Is my answer reasonable?

*For another example, see Set E on page 21.

Independent Practice

7. Describe the patterns you should use to complete the following grid, then complete it.

0.63		

8. Determine the pattern, and then complete the grid.

		0.67

9. Determine the pattern, and then complete the grid.

	0.92	

10. What is the missing number in the grid?

	0.27	0.28	0.29
--	------	------	------

11. Drake drew a grid of five cells in a row. The number 0.75 was in the middle cell. What did Drake's grid look like?

--	--	--	--	--

12. Determine the pattern, and then complete the grid.

0.004	0.005	
-------	-------	--

13. Juan and his family went to a movie. They bought 2 adult tickets for \$8 each and 3 student tickets for \$5 each. They paid with two \$20 bills. How much change did they get?

14. The greatest distance of Mercury from Earth is 136,000,000 miles. Write this number in expanded form.

Think About the Process

15. You buy three items costing \$0.37, \$0.35, and \$0.19, and give the clerk \$1.00. Which expression shows how to find the amount of change you would get from \$1.00?

- A $\$0.37 + \$0.35 + \$0.19 + \1.00
- B $\$1.00 - \0.37
- C $\$1.00 - (\$0.37 + \$0.35 + \$0.19)$
- D $\$1.00 + \$0.37 + \$0.35 - \0.19

16. If 100 people are waiting in line to buy tickets and only 53 tickets are available, which expression would you use to find how many people won't be able to buy tickets?

- A $100 + 53$
- B $100 - 53$
- C 100×53
- D $53 + 53$



Find the sum. Estimate to check if the answer is reasonable.

$$\begin{array}{r} 1. \quad 475 \\ + 583 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 843 \\ + 27 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 673 \\ + 19 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 927 \\ + 326 \\ \hline \end{array}$$

Find the difference. Estimate to check if the answer is reasonable.

$$\begin{array}{r} 5. \quad 796 \\ - 237 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 234 \\ - 99 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 705 \\ - 496 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 400 \\ - 48 \\ \hline \end{array}$$

Find the product.

$$\begin{array}{r} 9. \quad 4 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 6 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 7 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 9 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 5 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad 8 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad 2 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 16. \quad 3 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 17. \quad 8 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 18. \quad 7 \\ \times 7 \\ \hline \end{array}$$

Error Search Find each sum or difference that is not correct. Write it correctly and explain the error.

$$\begin{array}{r} 19. \quad 465 \\ - 75 \\ \hline 410 \end{array}$$

$$\begin{array}{r} 20. \quad 503 \\ - 59 \\ \hline 444 \end{array}$$

$$\begin{array}{r} 21. \quad 334 \\ + 39 \\ \hline 363 \end{array}$$

$$\begin{array}{r} 22. \quad 956 \\ + 269 \\ \hline 1,225 \end{array}$$

$$\begin{array}{r} 23. \quad 46 \\ - 15 \\ \hline 61 \end{array}$$

Number Sense

Estimating and Reasoning Write whether each statement is true or false. Explain your reasoning.

24. The product of 5 and 7 is 5 less than 30.
25. The sum of 610 and 209 is less than 800.
26. The quotient of 0 divided by 6 is zero.
27. The difference of $619 - 271$ is greater than 300 and less than 500.
28. The sum of $196 + 435$ is 4 less than 635.
29. The quotient of 7 divided by 1 is 1.

- About 885,000,000 people speak Mandarin Chinese, the most spoken language in the world. How is 885,000,000 written in words? (1-1)
 - eight hundred million, eighty-five thousand
 - eight hundred eighty-five million
 - eight billion, eighty-five million
 - eight hundred eighty-five billion
- What is eight hundred twenty-five and ninety-two hundredths in standard form? (1-3)
 - 825,092
 - 825.92
 - 825.902
 - 825.092
- About 1,300,000,000 people ride the New York Subway System each year. What is the value of the 3 in 1,300,000,000? (1-1)
 - Three hundred thousand
 - Three million
 - Three hundred million
 - Three billion
- The circumference of a bowling ball must be less than 27.002 inches. Which of the following would be an acceptable circumference for a bowling ball? (1-4)
 - 27.02 inches
 - 27.2 inches
 - 27.004 inches
 - 27 inches

- In a recent year, the number of people who spoke Spanish in the U.S. was 28,100,000. Which of the following is another way to write this number? (1-1)
 - $20,000,000 + 8,000,000 + 10,000$
 - $20,000,000 + 8,000,000 + 100,000$
 - $2,000,000 + 8,000,000 + 100,000$
 - $2,000,000 + 800,000 + 10,000$
- The average daily temperatures in July of some cities in the U.S. are shown in the table. Which of the following lists the cities by temperature from the least to the greatest? (1-4)

City	Average Daily Temperature
Atlanta, GA	78.8
Albuquerque, NM	78.5
Omaha, NE	76.9
St. Louis, MO	78.4

- Omaha, St. Louis, Albuquerque, Atlanta
 - Atlanta, St. Louis, Albuquerque, Omaha
 - Omaha, Atlanta, St. Louis, Albuquerque
 - Albuquerque, St. Louis, Omaha, Atlanta
- Lead melts at 327.46°C . What is the value of the 6 in 327.46° ? (1-3)
 - 6 hundreds
 - 6 tenths
 - 6 hundredths
 - 6 thousandths

8. Which of the following shows the numbers in order from least to greatest? (1-2)

- A 201,008 201,080 201,800
- B 201,080 201,800 201,008
- C 201,080 201,008 201,800
- D 201,008 201,800 201,080

9. A certain machine part must be between 2.73 and 3.55 inches. Which number is greater than 2.73 and less than 3.55? (1-4)

- A 3.73
- B 3.6
- C 2.55
- D 2.75

10. Which country listed in the table has the greatest number of cell phones? (1-2)

Country	Cell Phones
Mexico	38,451,100
South Korea	36,586,100
Spain	38,646,800
Turkey	34,707,500

- A Mexico
- B South Korea
- C Spain
- D Turkey

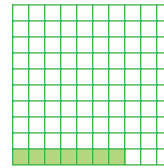
11. Which statement is true? (1-2)

- A $157,324,113 > 157,323,113$
- B $157,324,113 < 157,323,113$
- C $157,323,113 > 157,332,113$
- D $157,332,113 < 157,324,113$

12. Which two decimals are equivalent to 2.5? (1-3)

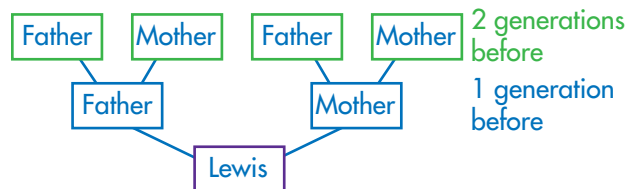
- A 2.050 and 2.500
- B 2.50 and 2.500
- C 2.50 and 2.05
- D 2.005 and 2.500

13. What part of the figure is shaded? (1-3)



- A 0.7
- B 0.70
- C 0.07
- D 0.007

14. Lewis is drawing a family tree similar to the one shown. How many boxes would there be for five generations before Lewis? (1-5)



- A 10
- B 16
- C 20
- D 32

Set A, pages 4–5

Write the word form and tell the value of the underlined digit for 930,365.

Nine hundred thirty thousand, three hundred sixty-five.

Since the 0 is in the thousands place, its value is 0 thousands or 0.

Write the word form and tell the value of the underlined digit for 65,467,386,941.

Sixty-five billion, four hundred sixty-seven million, three hundred eighty-six thousand, nine hundred forty-one

Since the 6 is in the ten billions place, its value is 60,000,000,000.

Remember that, starting from the right, each group of three digits forms a period. Periods are separated by commas.

Write the word form and tell the value of the underlined digit.

1. 9,000,009
2. 300,000,000,000
3. 25,678
4. 17,874,000,000
5. 4,000,345,000
6. 105,389
7. 876,400,000,000
8. 600,309,470
9. 135,000
10. 2,647,000
11. 4,104,327,894

Set B, pages 6–8

Write $<$, $>$, or $=$ for \bigcirc in
2,876,547 \bigcirc 2,826,547.

Line up the numbers above one another.

2,876,547 Begin at the left and compare.
2,826,547 Notice that the ten thousands
 are different.

7 ten thousands $>$ 2 ten thousands

So, 2,876,547 $>$ 2,826,547

Remember that lining up place values helps you compare numbers.

1. 9,990 \bigcirc 9,099
2. 89,128 \bigcirc 90,000
3. 1,000,000 \bigcirc 999,999
4. 300,300 \bigcirc 303,000
5. 6,752,100 \bigcirc 6,752,000
6. 9,314 \bigcirc 9,314
7. 17,320 \bigcirc 17,212
8. 45,006 \bigcirc 45,060
9. 22,009 \bigcirc 22,090
10. 145,372 \bigcirc 147,372
11. 8,374 \bigcirc 8,374

Set C, pages 10–11

Write the word form and tell the value of the underlined digit for the number 8.726.

Write the numbers on a place value chart.



Eight and seven hundred twenty-six thousandths

The 2 is in the hundredths place. Its value is 0.02.

Remember to write the word *and* for the decimal point.

- 8.59
- 2.251
- 7.003
- 3.24
- 6.837
- 0.636

Set D, pages 12–13

Write $<$, $>$, or $=$ for \bigcirc in

8.45 \bigcirc 8.47.

Line up the numbers above each other by the decimals.

8.45

8.47

5 hundredths $<$ 7 hundredths

So, $8.45 < 8.47$.

Remember that equivalent decimals, such as 0.45 and 0.450, can help you compare numbers.

- 0.584 \bigcirc 0.58
- 9.327 \bigcirc 9.236
- 5.2 \bigcirc 5.20
- 5.643 \bigcirc 5.675
- 0.07 \bigcirc 0.08
- 3.602 \bigcirc 3.062

Set E, pages 14–16

The table below shows the number of new members each month for a club. If the pattern continues, how many new members will there be in June?

Jan.	Feb.	Mar.	Apr.	May	June
15	30	60	120	■	■

Pattern: The number doubles each month.

May: $120 \times 2 = 240$

June: $240 \times 2 = 480$

In June, there will be 480 new members.

Remember to look for a pattern.

- On the board, Andrea's teacher wrote the pattern below. Find the next three numbers in the pattern.
2, 4, 8, 14, 22, ■, ■, ■
- Sean bought a rare stamp for \$15. He was told that it would increase in value by \$11 each year. What will the stamp's value be after 4 years?