

MY Homework

Lesson 1

Place Value

Homework Helper



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Write the place and value of the highlighted digit in 8,304,421.

Use a place-value chart.

Millions Period			Thousands Period			Ones Period		
hundreds	tens	ones	hundreds	tens	ones	hundreds	tens	ones
		8	3	0	4	4	2	1

The 3 is in the hundred thousands place.

The value of the 3 is $3 \times 100,000$, or 300,000.

Practice

Circle the place of the highlighted digit and write its value.

1. 62,468

thousands

Place

ten thousands

Value

2. 934,218

thousands

ten thousands

3. 438,112

ten thousands

hundred thousands

4. 285,012

tens

thousands

5. 2,905,146

hundred thousands

millions

6. 6,034,215

ten thousands

millions



Problem Solving

Mathematical PRACTICE 2

Use Number Sense

Use the place-value chart for Exercises 7–13.

Millions Period			Thousands Period			Ones Period		
hundreds	tens	ones	hundreds	tens	ones	hundreds	tens	ones

- Write 1 in the hundreds place.
- Write 8 in the tens place.
- Write 4 in the ones place.
- Write 3 in the thousands place.
- Write 7 in the millions place.
- Write 5 in the ten thousands place.
- Write 2 in the hundred thousands place.

Vocabulary Check



Match each definition to the correct vocabulary term.

- | | |
|---|---------------|
| 14. The value given to a digit by its position in a number. | • digits |
| 15. Symbols used to write whole numbers. | • place value |

Test Practice

16. A digit is in the hundreds place. The digit is moved so that its value is ten times greater. To which place did the digit move?
- hundred thousands
 - ten thousands
 - thousands
 - tens

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Lesson 2

Read and Write Multi-Digit Numbers

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Write $1,000,000 + 300,000 + 60,000 + 300 + 10 + 5$ in standard form. Then read the number aloud.

standard form: 1,360,315

Remember: Commas separate the periods. Say the name of the period at each comma.

Millions Period			Thousands Period			Ones Period		
hundreds	tens	ones	hundreds	tens	ones	hundreds	tens	ones
		1	3	6	0	3	1	5

Say: *one million, three hundred sixty thousand, three hundred fifteen*

Write 756,491 in expanded form and word form.

expanded form: $700,000 + 50,000 + 6,000 + 400 + 90 + 1$

word form: *seven hundred fifty-six thousand, four hundred ninety-one*

Practice

- Write *one million, one hundred forty-five thousand, two hundred thirty-seven* in standard form.

- Write 87,192 in word form and expanded form.



Problem Solving

Complete the expanded form.

3. Mathematical PRACTICE  **Check for Reasonableness**

91,765 = 90,000 + _____ + 700 + _____ + 5

4. 798,054 = 700,000 + _____ + _____ + 50 + 4

5. 5,925,020 = 5,000,000 + _____ + 20,000 + _____ + 20

6. 2,802,136 = _____ + 800,000 + _____ + 100 + 30 + _____

Vocabulary Check



Read each definition. Choose the correct word(s) to fill in the spaces.

expanded form

period

standard form

word form

7. the way of writing a number using words

8. the usual way of writing a number, using digits

9. the way of writing a number as the sum of the value of each digit

10. each group of three digits on a place-value chart

Test Practice

11. Which is the correct expanded form for 45,098?

(A) 45,000 + 98

(B) 4,000 + 5,000 + 9 + 8

(C) 40,000 + 500 + 90 + 8

(D) 40,000 + 5,000 + 90 + 8

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Lesson 3

Compare Numbers

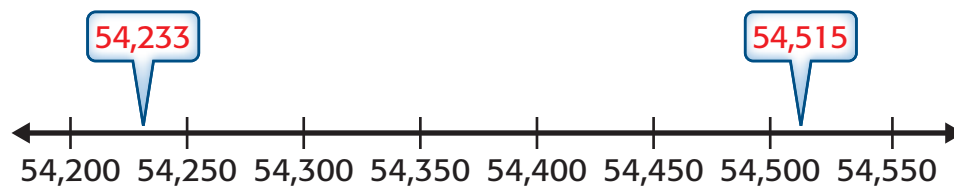
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Compare 54,515 and 54,233. Use $>$, $<$, or $=$.

Use a number line.



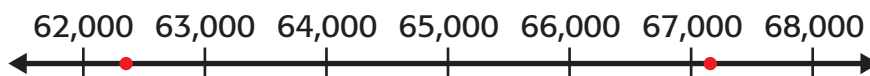
54,515 is to the right of 54,233 on the number line.

So, $54,515 > 54,233$.

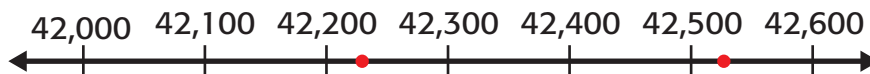
Practice

For Exercises 1–2, use the number lines to compare. Use $<$, $>$, or $=$.

1. $67,113$ ○ $62,523$



2. $42,254$ ○ $42,533$



Compare. Use $<$, $>$, or $=$.

3. $\$751,012$ ○ $\$715,012$ 4. $4,350$ ○ $5,430$ 5. $8,080$ ○ $8,880$

6. $322,650$ ○ $332,650$ 7. 673 ○ 376 8. $\$918,050$ ○ $\$819,050$

9. $121,571$ ○ $211,571$ 10. $17,888$ ○ $17,780$ 11. $72,770$ ○ $72,770$



Problem Solving

- 12. PRACTICE E** **Mathematical Draw a Conclusion** Gigi has \$1,698 in her savings account. Robert has \$1,898 in his savings account. Toby has \$100 less than Robert in his savings account. Who has the least amount of money?
-

- 13.** There were 544,692 tickets sold for the rock concert. There were 455,692 tickets sold for the country music concert. Which concert sold a greater number of tickets?
-

Vocabulary Check



- 14.** Choose the correct word(s) to complete each sentence.

is equal to (=)

is greater than (>)

is less than (<)

number line

To compare numbers, you can use a _____. A number that is to the right on a number line _____ a number to its left. A number on the left _____ a number to its right.

You can look at place values to compare numbers. If a number has a digit in the thousands place that _____ the thousands digit in another number, then look to the hundreds place.

Test Practice

- 15.** Which number sentence is *not* true?

- (A) $243,053 < 242,553$
- (B) $194,832 > 193,832$
- (C) $553,025 = 553,025$
- (D) $295,925 < 295,952$

MY Homework**Lesson 4****Order Numbers****Homework Helper**Need help? connectED.mcgraw-hill.com**Order the numbers from *greatest to least*:**

17,601; 20,007; 17,610

Compare the ten thousands.

17,601

20,007 ← most ten thousands

17,610

Both thousands and hundreds are the same, so compare the tens.

17,601

17,610 ← more tens

From *greatest to least*, the numbers are 20,007; 17,610; and 17,601.**Practice****Order the numbers from *greatest to least*.**

1. 59,909; 95,509; 59,919

2. 2,993; 9,239; 2,393

3. 112,443; 114,324; 112,344

4. 642,063; 642,036; 642,306

Order the numbers from *least to greatest*.

5. 225,625; 335,432; 325,745


6. 357,925; 329,053; 356,035



Problem Solving

7. The United States' soccer team has 572,112 fans. Great Britain's team has 612,006 fans. Brazil's team has 901,808 fans. Write the countries in order from the *greatest* to *least* number of soccer fans.

8. There are 943,025 sports tickets available. There are 832,502 movie tickets available. There are 415,935 theater tickets available. List the number of tickets in order from *least* to *greatest*.

9. **Mathematical PRACTICE**  **Identify Structure** Write four numbers that each have six digits. Order the numbers from *least* to *greatest*.



My Work!

Test Practice

10. The table shows the populations of the cities where Alex and Brent live. Marcia lives in a city that has more people than Alex's city and fewer people than Brent's. Which could be the number of people who live in Marcia's city?

Name	Population of their city
Alex	404,048
Brent	412,888

- (A) 413,066 people (C) 404,132 people
(B) 412,901 people (D) 403,997 people

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Lesson 5

Use Place Value to Round

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Round 65,839 to the nearest hundred.

Circle the digit to be rounded. **65,839**

The digit to the right is 4 or less, so the 8 does not change. All digits after the 8 are replaced with zeros.

65,839 rounded to the nearest hundred is 65,800.

Round 65,839 to the nearest ten thousand.

Circle the digit to be rounded. **65,839**

The digit to the right is 5 or more, so 1 is added to the circled digit. The digits after the circled digit are replaced with zeros.

65,839 rounded to the nearest ten thousand is 70,000.

Practice

Round each number to the given place-value position.

1. 64,569; thousands

2. 155,016; thousands

3. 73,569; ten thousands

4. 708,569; ten thousands

5. 91,284; hundred thousands

6. 265,409; hundred thousands




Problem Solving

7. Luis and his family flew 51,487 miles last summer while on vacation. Rounded to the nearest thousand, how many miles did they fly?

8. Miles bought a car that cost \$23,556. To the nearest ten thousand, how much did the car cost?

9. Explain how you would round the numbers 33 and 89 to estimate their sum.

Use the data from the table for Exercises 10–12.

10. ^{Mathematical} PRACTICE  Use Math Tools Which ocean has an average depth of about 12,000 feet, to the nearest thousand?

Depths of Oceans	
Ocean	Average Depth (ft)
Pacific	12,925
Atlantic	11,730
Indian	12,598

11. What is the depth of the Pacific Ocean rounded to the nearest ten thousand?

12. What is the depth of the Indian Ocean rounded to the nearest thousand?

Test Practice

13. What is 104,229 rounded to the nearest ten thousand?

(A) 90,000 (C) 104,000

(B) 100,000 (D) 110,000

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Lesson 6

Problem Solving: Use the Four-Step Plan

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A six-digit number has a 2 in the thousands place, a 5 in the tens place, a 3 in the hundred thousands place, and zeros in each of the remaining places. What is the number?

Use the four-step plan to solve this problem.

1

Understand

I know that there is a number with six digits. It has a 2 in the thousands place, a 5 in the tens place, a 3 in the hundred thousands place, and zeros in each of the remaining places. I need to find the number.

2

Plan

I will use a place-value chart to help me organize the digits.

3

Solve

Thousands Period			Ones Period		
hundreds	tens	ones	hundreds	tens	ones
3	0	2	0	5	0

So, the number is 302,050.

4

Check

I can check my work by reading the clues again to make sure that the digits are all in the correct places.



Problem Solving

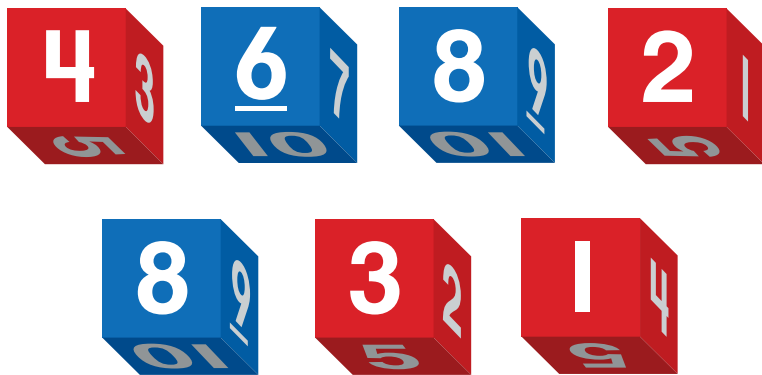
- A five-digit number has a 3 in the hundreds place, a 7 in the greatest place-value position, a 9 in the ones place, an 8 in the thousands place, and a 6 in the tens place. What is the number? Use the four-step plan.

Solve each problem by using the four-step plan.


2. Use the digits 1–7 to create a seven-digit number that can be rounded to 6,300,000.

3. A seven-digit number has a 0 in the ones place, a 6 in the ten thousands place, an 8 in the millions place, and fives in each of the remaining places. What is the number?

4. Tara rolled the numbers shown. What is the greatest number she can make using each digit once?



5. Betsy, Carl, and Dave each live in different cities. The populations of the cities are 194,032; 23,853; and 192,034. Betsy lives in the city with the least population. Carl does not live in the city with the greatest population. What is the population of Dave's city?

6. **Mathematical PRACTICE**  **Explain to a Friend** Explain how the value of the 7 in 327,902 will change if you move it to the tens place.

My Work!