Name _____

Reteaching
3-1

Representing Numbers

Use a place-value chart to help you write a number in standard form.

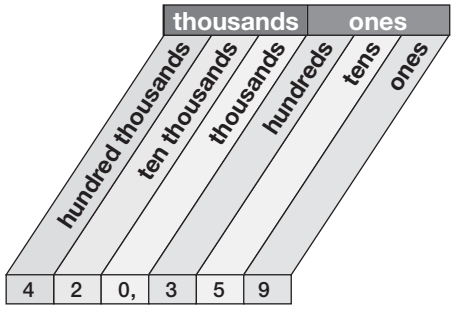
Write four hundred twenty thousand, three hundred fifty-nine in standard form.

Step 1: Write 420 in the thousands period.

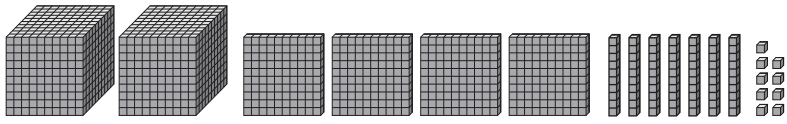
Step 2: Write 359 in the ones period.

The standard form is 420,359.

Each digit in 420,359 has a different *place value* and *value.* The *place value* of the digit 3 is the hundreds place. This digit has a *value* of 300.



Write each number in standard form.

1.  _____

2. 7 ten thousands + 5 thousands + 8 hundreds + 1 ten + 0 ones _____

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

3. 4,<u>6</u>32 _____

_____

4. <u>7</u>,129 _____

_____

5. 13,57<u>2</u> _____

_____

6. Number Sense Write a six-digit number with a 5 in the ten thousands place and a 2 in the ones place. _____

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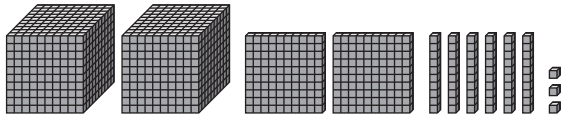
Name _____

Practice
3-1

Representing Numbers

Write each number in standard form.

1.  _____

2. 8 ten thousands + 4 thousands + 9 hundreds + 4 tens + 7 ones _____

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

3. 7<u>6</u>,239 _____

_____

4. 823,<u>7</u>74 _____

_____

5. Number Sense Write the number that has 652 in the ones period and 739 in the thousands period. _____

During a weekend at the Movie Palace Theaters, 24,875 tickets were sold. Add the following to the number of tickets sold.

6. 100 tickets _____ **7.** 1,000 tickets _____

8. Which of the following numbers has a 5 in the ten thousands place?

A 652,341 **B** 562,341 **C** 462,541 **D** 265,401

9. Writing to Explain Explain how you know the 6 in the number 364,021 is **NOT** in the thousands place.

_____

_____

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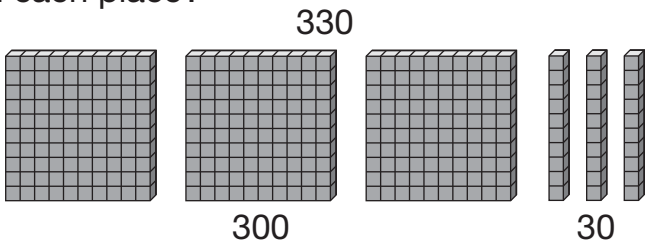
Name _____

Reteaching
3-2

Place Value Relationships

In the number 330, what is the relationship between the value of the digit 3 in each place?



The first 3 is in the hundreds place.
Its value is 300.

The second 3 is in the tens place.
Its value is 30.

Since 300 is ten times as great as 30, the first 3 is worth 10 times as much as the second 3. When two digits next to each other in a number are the same, the one on the left is always 10 times as great as the one on the right.

Name the values of the given digits in the numbers below.

1. the 4s in 440 _____

2. the 8s in 8,800 _____

Write the relationship between the values of the given digits.

3. the 6s in 660

_____

4. the 8s in 8,800

_____

5. **Reason** In the number 550, is the value of the 5 in the tens place ten times greater than the value of the 5 in the hundreds place? Explain why or why not.

_____

6. **Reason** Is the relationship between the 6s in 664 and 668 different in any way? Explain why or why not.

_____

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Name _____

Practice
3-2

Place Value Relationships

Name the values of the given digits in the numbers below.

1. the 4s in 244 _____

2. the 2s in 2,200 _____

3. the 5s in 6,755 _____

4. the 7s in 770 _____

5. the 6s in 6,600 _____

6. the 9s in 3,994 _____

7. the 8s in 6,588 _____

8. the 3s in 3,312 _____

9. the 1s in 5,114 _____

10. the 2s in 2,226 _____

11. the 7s in 4,777 _____

12. the 9s in 39,990 _____

13. What is the relationship between the 6s in the number 6,647?

14. What is the relationship between the 3s in the number 9,338?

15. **Writing to Explain** In your own words, explain the place-value relationship when the same two digits are next to each other in a multi-digit number.

16. Which of the following names the value of the 5s in the number 1,557?

A 50 and 5 **B** 500 and 50 **C** 5,000 and 50 **D** 5,000 and 500

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Name _____

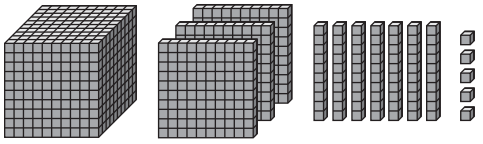
Reteaching
3-3

Comparing Numbers

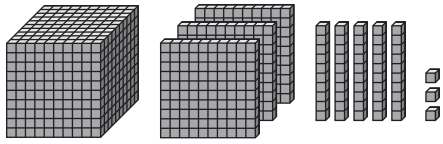
Use these symbols to compare numbers.

< is less than **> is greater than** **= is equal to**

Compare 1,375 and 1,353.



1,375



1,353

Both have the same number of thousands and hundreds.
Compare the tens. 1,375 has more tens.

1,375 is greater than 1,353. $1{,}375 > 1{,}353$

Compare the numbers. Use <, >, or =.

1. 36 ◯ 27 **2.** 278 ◯ 285 **3.** 692 ◯ 690

4. 1,842 ◯ 1,824 **5.** 4,669 ◯ 4,705 **6.** 7,305 ◯ 7,305

7. 1,100 ◯ 998 **8.** 245,436 ◯ 245,436 **9.** 162,323 ◯ 162,333

10. Number Sense Write a 3-digit number that is greater than 699.

_____

11. Write a 4-digit number that is less than 2,340.

_____

12. Writing to Explain Every digit in 798 is greater than any digit in 4,325. Explain why 4,325 is greater than 798.

_____

_____

_____

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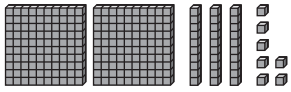
Name _____

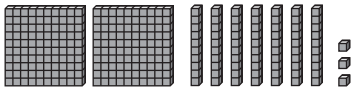
Practice
3-3

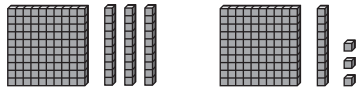
Comparing Numbers

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

1. 

237 _____ 273



2. 

130 _____ 113

3. 725 ◯ 739

4. 831 ◯ 813

5. 926 ◯ 926

6. 2,734 ◯ 2,347

7. 24,827 ◯ 2,583

8. 165,327 ◯ 165,372

Use the table for **9** and **10**.

9. Between which pair of cities is the distance the greatest?

_____

_____

Distance in Miles

New York, NY, to Rapid City, SD	1,701
Rapid City, SD, to Miami, FL	2,167
Miami, FL, to Seattle, WA	3,334
Portland, OR, to Little Rock, AR	2,217

10. Which distance is greater, from Rapid City to Miami or from Portland to Little Rock? Which digits did you use to compare?

_____

_____

Number Sense Write the missing digits to make each number sentence true.

11. 7 ☐ 7 $<$ 713

12. 5,8 ☐ 5 $>$ 5,889

13. 43, ☐ 64 $=$ 43,2 ☐ 4

14. Which number sentence is true?

A 4,375 > 4,722

C 5,106 $=$ 5,160

B 6,372 $>$ 6,327

D 7,095 $<$ 795

15. Which number is greater than 318,264?

A 318,246 **B** 318,255 **C** 316,842 **D** 318,295

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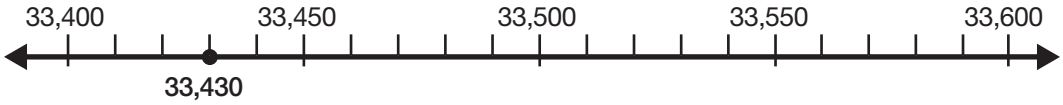
Name _____

Reteaching
3-4

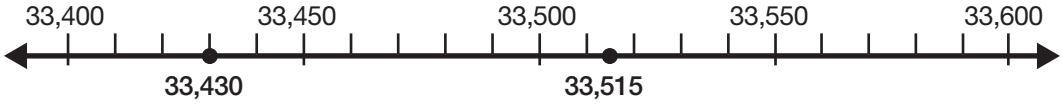
Ordering Numbers

You can use a number line to compare two numbers. Which is greater, 33,430 or 33,515?

Step 1 Plot the first number on a number line:



Step 2 Plot the second number on the same number line:



Step 3 Compare the numbers. Remember, as you move to the right on a number line, the numbers increase.
Looking at the number line, 33,515 is to the right of 33,430.
So, 33,515 > 33,430.

You can use place value to order numbers from greatest to least. Write the numbers, lining up places. Begin at the left and find the greatest digit. If necessary, continue comparing the other digits:

42,078	Continue comparing	Write from greatest to least
37,544	37,544	42,078
24,532	39,222	39,222
39,222	39,222 > 37,544	37,544
		24,532

Compare. Write > or < for each ◯.

1. 3,211 ◯ 4,221 **2.** 35,746 ◯ 35,645 **3.** 355,462 ◯ 535,845

4. Order the numbers from greatest to least. 62,500 62,721 63,001 61,435

_____; _____; _____; _____

5. Number Sense Write 3 numbers that are greater than 12,000, but less than 13,000.

_____

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Name _____

Practice
3-4

Ordering Numbers

Compare. Write $>$ or $<$ for each ◯.

1. 854,376 ◯ 845,763

2. 6,789 ◯ 9,876

3. 59,635 ◯ 59,536

4. 374,125 ◯ 743,225

Order the numbers from least to greatest.

5. 458,592 493,621 439,582

_____ _____ _____

6. Number Sense Write three numbers that are greater than 543,000 but less than 544,000.

_____ _____ _____

7. Put the states in order from the least populated to most populated state.

_____

_____

_____

_____

_____

The Five Least Populated States

State	Population (2010)
Alaska	721,523
North Dakota	675,905
South Dakota	819,761
Vermont	630,337
Wyoming	568,300

8. Which number has the greatest value?

A 865,437 **B** 826,911 **C** 853,812 **D** 862,391

9. Writing to Explain Tell how you could use a number line to determine which of two numbers is greater.

_____

_____

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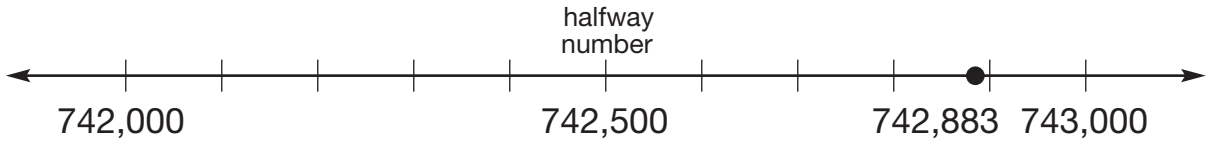
Name _____

Reteaching
3-5

Rounding Whole Numbers

Round 742,883 to the nearest thousand.

You can use place value or a number line to help you round numbers. On the number line below, 742,883 is between 742,000 and 743,000. The halfway number is 742,500.



742,883 is closer to 743,000 than to 742,000.

Therefore, 742,883 rounds up to 743,000.

When the number you want to round is greater than or equal to the halfway number, round up.

Round to the nearest hundred thousand. Draw a number line on a separate sheet of paper to help you.

1. 387,422 _____

2. 124,607 _____

3. 111,022 _____

Round to the nearest ten thousand. Use place value to help you.

4. 276,431 _____

5. 141,173 _____

6. 555,000 _____

Round to the underlined place.

7. 6<u>5</u>4,202 _____

8. 297,<u>4</u>99 _____

9. 722,4<u>8</u>3 _____

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Name _____

Practice
3-5

Rounding Whole Numbers

Round each number to the nearest ten.

1. 16,326 _____ **2.** 412,825 _____ **3.** 512,162 _____ **4.** 84,097 _____

Round each number to the nearest hundred.

5. 1,427 _____ **6.** 68,136 _____ **7.** 271,308 _____ **8.** 593,656 _____

Round each number to the nearest thousand.

9. 18,366 _____ **10.** 409,614 _____ **11.** 229,930 _____ **12.** 563,239 _____

Round each number to the underlined place.

13. 12,<u>1</u>08 _____ **14.** <u>5</u>70,274 _____ **15.** <u>3</u>33,625 _____ **16.** 5<u>3</u>4,307 _____

17. What is 681,542 rounded to the nearest hundred thousand?

A 600,000 **B** 680,000 **C** 700,000 **D** 780,000

18. **Writing to Explain** Mrs. Kennedy is buying pencils for each of 315 students at Hamilton Elementary. The pencils are sold in boxes of tens. How can she use rounding to decide how many pencils to buy?

_____

_____

_____

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Name _____

Reteaching
3-6

Problem Solving: Make an Organized List

Theme Park Brian has four passes to a theme park. He could bring himself and three friends. The group of friends for him to choose from includes Art, Ned, Jeff, and Belinda. How many different combinations are possible?

Read and Understand

Step 1: What do you know?

There are four friends: Art, Ned, Jeff, and Belinda.

Step 2: What are you trying to find?

Find out how many different combinations of friends Brian can take.

Plan and Solve

Step 3: What strategy will you use?

Strategy: Make an Organized List

Brian, Art, Ned, Jeff, and Belinda. Brian has to be in each combination.

List the choices:
Brian, Art, Ned, Belinda
Brian, Art, Ned, Jeff
Brian, Art, Jeff, Belinda
Brian, Ned, Jeff, Belinda

Answer: There are four combinations.

Look Back and Check

Is your work correct?

Yes, because each combination uses Brian. The way the list is organized shows that all ways were found.

Finish solving the problem.

1. Ann, Mara, Jenny, Tina, and Sue are sisters. Two of the five sisters must help their father at his business each Saturday. How many combinations of two sisters are possible?

_____

_____

Ann Mara Jenny Tina
Ann Jenny

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Name _____

Practice
3-6

Problem Solving: Make an Organized List

Make an organized list to solve each problem. Write each answer in a complete sentence.

1. Tonya and Lauren are designing a soccer uniform. They want to use two colors on the shirt. Their choices are green, orange, yellow, purple, blue, and silver. How many ways can they choose two colors?

2. Yancey collects plastic banks. He has three different banks: a pig, a cow, and a horse. How many ways can Yancey arrange his banks on a shelf?

3. Kevin has a rabbit, a ferret, a gerbil, and a turtle. He feeds them in a different order each day. In how many different orders can Kevin feed his pets?

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