Grade 4

Reveal MATH®

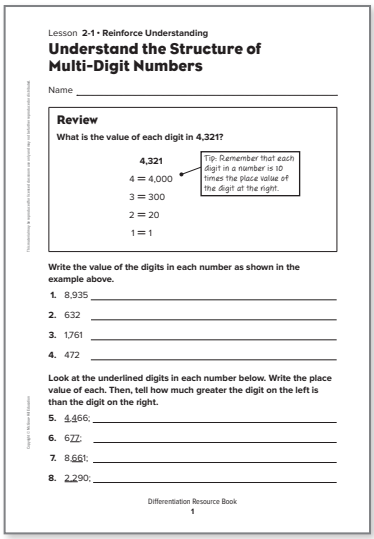
AVAILABLE IN SPANISH

Assessment **Sampler**

Mc Graw Hill

Differentiation Resource Book

Every lesson includes pages to Reinforce Understanding and Extend Thinking to support lesson differentiation. These are available to print digitally as well. Additional differentiation resources are available digitally and within the Workstation Kit.



Lesson 2-1 • Reinforce Understanding

Understand the Structure of Multi-Digit Numbers

Name _____

Review

What is the value of each digit in 4,321?

4,321

4 = 4,000

3 = 300

2 = 20

1 = 1

Tip: Remember that each digit in a number is 10 times the place value of the digit at the right.

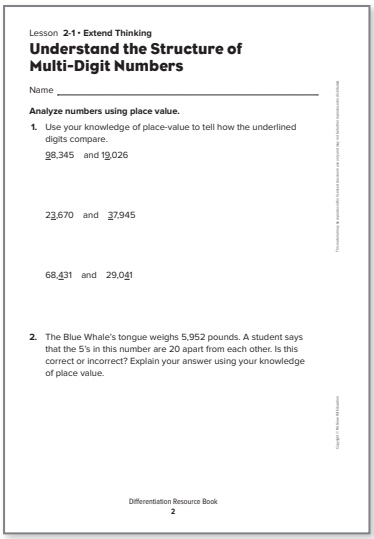
Write the value of the digits in each number as shown in the example above.

1. 8,935 _____
2. 632 _____
3. 1,761 _____
4. 472 _____

Look at the underlined digits in each number below. Write the place value of each. Then, tell how much greater the digit on the left is than the digit on the right.

5. 4,466: _____
6. 677: _____
7. 8,661: _____
8. 2,290: _____

Differentiation Resource Book 1



Lesson 2-1 • Extend Thinking

Understand the Structure of Multi-Digit Numbers

Name _____

Analyze numbers using place value.

1. Use your knowledge of place-value to tell how the underlined digits compare.

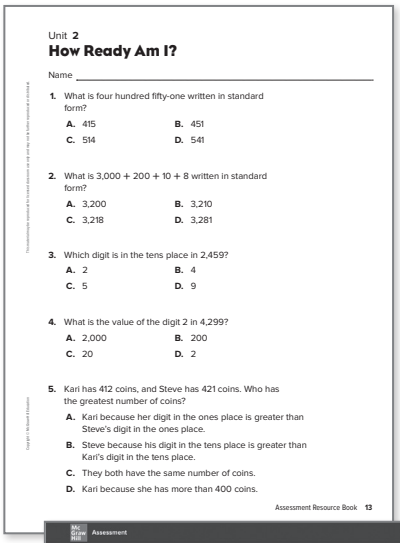
98,345 and 19,026

23,670 and 37,945

68,431 and 29,041

2. The Blue Whale's tongue weighs 5,952 pounds. A student says that the 5's in this number are 20 apart from each other. Is this correct or incorrect? Explain your answer using your knowledge of place value.

Differentiation Resource Book 2



Unit 2

How Ready Am I?

Name _____

1. What is four hundred fifty-one written in standard form?
   - A. 415
   - B. 451
   - C. 514
   - D. 541

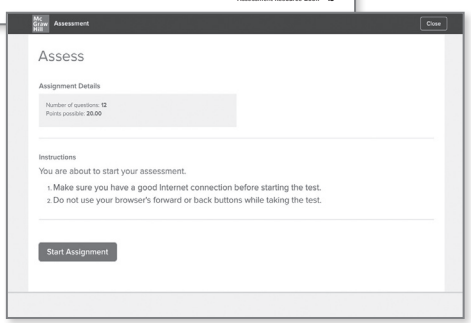
2. What is 3,000 + 200 + 10 + 8 written in standard form?
   - A. 3,200
   - B. 3,210
   - C. 3,218
   - D. 3,281

3. Which digit is in the tens place in 2,459?
   - A. 2
   - B. 4
   - C. 5
   - D. 9

4. What is the value of the digit 2 in 4,299?
   - A. 2,000
   - B. 200
   - C. 20
   - D. 2

5. Kari has 412 coins, and Steve has 421 coins. Who has the greatest number of coins?
   - A. Kari because her digit in the ones place is greater than Steve's digit in the ones place.
   - B. Steve because his digit in the tens place is greater than Kari's digit in the tens place.
   - C. They both have the same number of coins.
   - D. Kari because she has more than 400 coins.

Assessment Resource Book 13



Assessment Resource Book

The Assessment Resource Book provides the following resources. Assessments can be completed in print or digitally.

COURSE ASSESSMENTS

Course Diagnostic assesses student's readiness for grade-level content as they enter a new school year.

Benchmark Assessments help monitor student progress towards grade-level expectations.

Summative Assessment evaluates student learning at the end of each grade level.

UNIT ASSESSMENTS

Unit Readiness Diagnostics assess each student's proficiency with pre-requisite skills to determine readiness for the unit content.

Unit Assessments measure multiple depths of knowledge to assess for various stages of understanding. Two forms of the assessment allow for flexibilty.

Performance Tasks assess students' understanding of big ideas and their ability to apply unit content to solve real-world problems. In addition, practice performance tasks are available as part of the unit review materials.

LESSON ASSESSMENTS

Exit Tickets assess student understanding of lesson content and drive differentiation.

Assessment Resource Book

SAMPLE

Course Diagnostic

Unit 2: Generalize Place-Value Structure

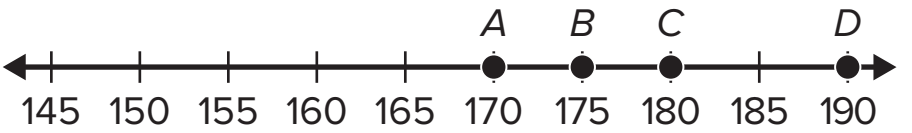
- Readiness Diagnostic
- Exit Tickets
- Unit Assessment Form A
- Unit Assessment Form B
- Performance Task

Grade **4**

Course Diagnostic

Name _____

1. The length of a bench is 177 centimeters. Raul marks the length to the nearest ten on the number line shown.



Which point does Raul mark?

Point *A* Point *B* Point *C* Point *D*

2. Wiley draws a shape.

- Wiley's shape is a rhombus.
- Wiley's shape is not a square.

What must be true about Wiley's shape?

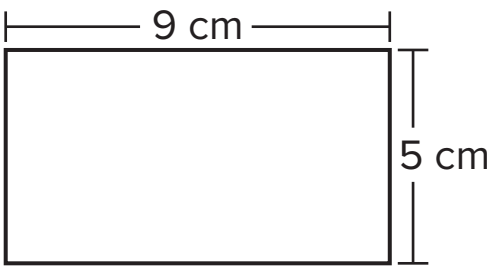
A. Wiley's shape has 5 sides.

B. Wiley's shape has 4 right angles.

C. Wiley's shape has all equal sides.

D. Wiley's shape has perpendicular lines.

3. Look at the rectangle.



What is the perimeter of the rectangle?

A. 14 centimeters **B.** 28 centimeters

C. 36 centimeters **D.** 45 centimeters

4. Look at the equation.

$405 - 218 = ?$

Which unknown number makes the equation true?

A. 187 **B.** 197

C. 213 **D.** 293

5. Which category of shapes includes all squares and all rhombuses?

A. hexagons

B. parallelograms

C. rectangles

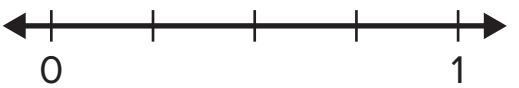
D. trapezoids

6. Which of these comparisons is correct?

A. $\frac{1}{4} > \frac{1}{2}$ **B.** $\frac{2}{8} > \frac{2}{3}$

C. $\frac{4}{6} < \frac{2}{6}$ **D.** $\frac{5}{8} > \frac{3}{8}$

7. Place a point on the number line where $\frac{2}{4}$ is located.



8. Identify the missing number that makes both equations true.

$? \times 4 = 28$

$28 \div ? = 4$

A. 4 **B.** 5

C. 6 **D.** 7

9. A baker has 5 bags of flour. Each bag has a mass of 9 kilograms.

What is the total mass, in kilograms, of the bags of flour?

A. 14 kilograms

B. 35 kilograms

C. 45 kilograms

D. 50 kilograms

10. There are 56 chairs placed around tables in a room. If there are 8 chairs at each table, how many tables are there?

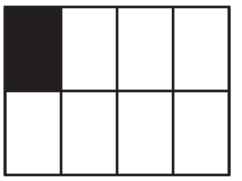
A. 6 tables **B.** 7 tables

C. 8 tables **D.** 98 tables

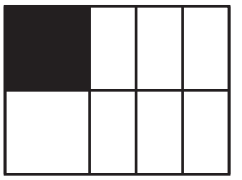
Name _____

11. Which model shows $\frac{1}{8}$ of the whole figure shaded?

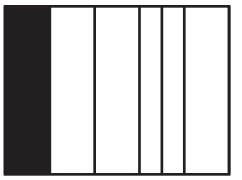
A.



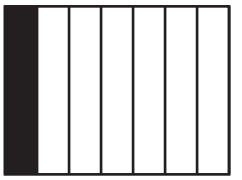
B.



C.



D.



12. Xavier draws a rectangle that has 9 rows and 6 columns.

What is the area, in square units, of the rectangle Xavier draws?

13. How can you multiply 6 × 80? Fill in the missing numbers.

6 × 80 = 6 × 8 × _____

6 × 80 = _____ × 10

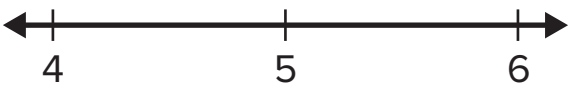
6 × 80 = _____

14. Janet measures the lengths of different objects she finds in her desk. The table below shows the length, in centimeters, of each object she measures.

Item	Length (cm)
crayon	4
eraser	5
hair clip	6
toy car	5

Plot the data on the line plot by drawing the correct number of Xs above each number.

Length of Items (cm)



15. Look at the pattern.

16, 24, 32, _____, 48

Circle the missing number.

36 40 42 56

16. Decide whether the missing number in each equation is 7. Choose Yes or No for each equation.

	Yes	No
$21 \div 3 = ?$		
$8 \times ? = 48$		
$27 \div ? = 3$		
$? \times 9 = 63$		

17. Aarav sells vases at the craft fair for $9 each. He uses the money that he earns to buy art supplies for $27 on the way home.

How many vases does Aarav sell if he has $45 left at the end of the day?

A. 3 vases **B.** 5 vases

C. 6 vases **D.** 8 vases

18. Look at the equation

$42 \div 6 = ?$

What unknown number makes the equation true?

19. Which fractions are equivalent to $\frac{1}{2}$? Choose all that apply.

A. $\frac{3}{6}$ **B.** $\frac{2}{3}$

C. $\frac{4}{8}$ **D.** $\frac{1}{4}$

E. $\frac{2}{4}$

20. How can you decompose one addend to add $472 + 308$? Fill in the missing numbers.

$472 + 308 = 472 + 300 +$ _____

$472 + 308 = 472 + 8 +$ _____

$472 + 308 =$ _____ $+ 300$

$472 + 308 =$ _____

21. Look at the array.

Which expression describes the array?

A. 2×4 **B.** 3×4

C. 4×6 **D.** 6×3

22. Fill in the missing numbers to make each number sentence true.

$2 \times 8 \times 5 = 8 \times$ _____ $\times 2$

$6 \times 9 \times 8 =$ _____ $\times 8$

$5 \times 7 \times 4 = 5 \times$ _____

23. Look at the equation

$24 \div 3 = ?$

What unknown number makes the equation true?

Name _____

24. Which expression is equivalent to 4 × 9?

A. 9 + 4 **B.** 9 − 4

C. 9 × 4 **D.** 9 ÷ 4

25. Circle the missing phrase that makes the statement true.

The product of 4 × 8 is ____ the product of 8 × 8.

half of two times equal to

26. Cara buys 4 boxes of thick markers and 6 boxes of thin markers. Each box of thick markers contains 8 markers and each box of thin markers contains 10 markers.

How many markers does Cara buy in all?

A. 28 markers

B. 88 markers

C. 92 markers

D. 104 markers

27. Look at the picture. Each rectangle represents 1 whole.

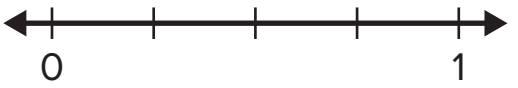
Which fraction correctly represents the picture?

A. $\frac{1}{2}$ **B.** $\frac{2}{1}$

C. $\frac{2}{2}$ **D.** $\frac{1}{1}$

28. Sari measured the length of a beetle and found it to be $\frac{3}{4}$ of an inch long.

Plot the point that represents the length of the beetle.



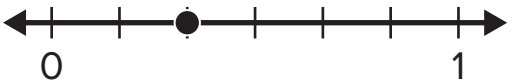
29. Marc makes a placemat that is 10 inches wide and 8 inches long.

What is the area, in square inches, of Marc's placemat?

30. Which number line shows a fraction equivalent to $\frac{2}{8}$?

A.

B.



C.

D.

Unit **2**

How Ready Am I?

Name _____

1. What is four hundred fifty-one written in standard form?

A. 415 **B.** 451

C. 514 **D.** 541

2. What is 3,000 + 200 + 10 + 8 written in standard form?

A. 3,200 **B.** 3,210

C. 3,218 **D.** 3,281

3. Which digit is in the tens place in 2,459?

A. 2 **B.** 4

C. 5 **D.** 9

4. What is the value of the digit 2 in 4,299?

A. 2,000 **B.** 200

C. 20 **D.** 2

5. Kari has 412 coins, and Steve has 421 coins. Who has the greatest number of coins?

A. Kari because her digit in the ones place is greater than Steve's digit in the ones place.

B. Steve because his digit in the tens place is greater than Kari's digit in the tens place.

C. They both have the same number of coins.

D. Kari because she has more than 400 coins.

6. Which number is closest to 300?

A. 258 **B.** 285

C. 308 **D.** 311

7. What is the missing number?

$5 \times ? = 350$

A. 6 **B.** 7

C. 60 **D.** 70

8. What is 249 rounded to the nearest 100?

A. 300 **B.** 250

C. 240 **D.** 200

9. What is 3×60?

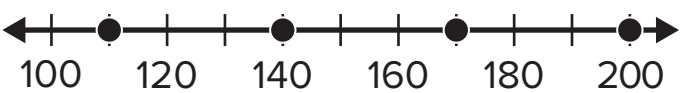
A. 18

B. 90

C. 180

D. 240

10. Look at the points on the number line.



Which point is closest to the halfway point of 100 and 200?

A. 110

B. 140

C. 170

D. 200

Lesson **2-1**

Exit Ticket

Name _____

1. Can you find the value of the digits in 2,178,095? Use the place-value chart to help.

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

The digit 0 has a value of _____.

The digit 2 has a value of _____.

The digit 8 has a value of _____.

2. A scientist studies a blue whale that weighs 378,810 pounds.

a. What is the value of the digit 8 in the thousands place?
The digit 8 has a value of _____.

A. 800 **B.** 8,000

C. 80,000 **D.** 800,000

b. What is the relationship between the digit 8 in the thousands place and the digit 8 in the hundreds place?

3. The population of Town A is 74,000. The population of the Town B is 740,000. How much larger is Town B than Town A?

Town B is _____ times larger than Town A.

Reflect On Your Learning

I'm confused. | I'm still learning. | I understand. | I can teach someone else.

Lesson **2-2**

Exit Ticket

Name _____

1. How can you write the number in standard form?

Seven hundred seventeen thousand, twenty-nine = _____

2. How can you write 120,564 in expanded form?

_____ + _____ + _____ + _____ + _____

3. Which of these is the word form of 733,452?

A. seventy-three thousand, thirty-five hundred fifty-two

B. seventy-three thousand, four hundred fifty-two

C. seven hundred thirty-three thousand, four hundred fifty-two

D. seven hundred thirty-three thousand, five hundred forty-two

Which representations are equivalent to 701,803?
Choose Yes or No for each representation.

		Yes	No
4.	700,000 + 1,000 + 800 + 3		
5.	700,000 + 10,000 + 8,000 + 300		
6.	seven hundred eighteen thousand, three		
7.	seven hundred one thousand, eighty-three		
8.	seven hundred one thousand, eight hundred three		

Reflect On Your Learning

I'm confused. | I'm stll learning. | I understand. | I can teach someone else.

Lesson **2-3**

Exit Ticket

Name _____

How can you compare each pair of numbers? Use < or >.

			<	>
1.	806,121 ◯	87,302		
2.	681,532 ◯	681,459		
3.	457,188 ◯	482,100		
4.	260,832 ◯	259,785		

5. Which numbers are less than 278,376? Choose all that apply.

A. 269,899 **B.** 270,589

C. 277,589 **D.** 287,004

6. Seth wrote the number 54,653.

Which numbers are greater than Seth's number? Choose all that apply.

A. 53,465 **B.** 54,563

C. 55,643 **D.** 56,453

7. Is the comparison True or False. Explain how you know.

643,290 > 643,209

Reflect On Your Learning

I'm confused. | I'm stll learning . | I understand. | I can teach someone else.

Lesson **2-4**

Exit Ticket

Name _____

1. How can you use place value to round 317,126?

Round to the nearest hundred thousand: _____

Round to the nearest ten thousand: _____

Round to the nearest thousand: _____

2. Last summer, a tour company had 535,812 customers. They will have about the same number of customers this summer.

Which statement ***best*** explains the most reasonable estimate of customers that the tour company should use when determining how many buses to hire?

A. 500,000 so they don't hire more buses than needed.

B. 535,000 is a good number of buses to work with.

C. 536,000 is close to the number of last summer's customers.

D. 550,000 so they are sure to have enough buses.

3. Which numbers round to 406,000 when rounding to the nearest thousand? Choose Yes or No.

	406,259	405,811	416,009	406,623	405,539
Yes					
No					

Reflect On Your Learning

I'm confused. — I'm still learning. — I understand. — I can teach someone else.

Unit **2**

Unit Assessment, Form A

Name _____

1. Which number has the digit 4 in the tens place, the digit 9 in the ten thousands place, and the digit 7 in the hundreds place?

A. 93,724 **B.** 93,742

C. 97,234 **D.** 97,342

2. How can you compare the numbers? Write >, <, or =.

4,893 ◯ 12,399

948,121 ◯ 941,053

435,927 ◯ 87,589

20,508 ◯ 20,508

3. Paula creates a table to show the heights of 3 different skyscrapers.

Skyscraper	Height (ft)
Willis Tower	1,453
U.S. Bank Tower	1,018
One World Trade Center	1,776

Which place-value position should Paula use to compare their heights?

A. ones place

B. tens place

C. hundreds place

D. thousands place

4. The value of the thousands place is 10 times greater than the value of which place-value position?

A. ten thousands

B. hundreds

C. tens

D. ones

5. Which of these represents 508,627? Choose all that apply.

A. 50,000 + 8,000 + 600 + 20 + 7

B. five hundred eight thousand, six hundred twenty-seven

C. 500,000 + 8,000 + 600 + 20 + 7

D. fifty-eight thousand, six hundred twenty-seven

6. What is the value of the digit 7 in 76,509?

_____

7. What is 65,803 rounded to the nearest ten thousand?

_____

8. The value of the digit 9 in 943 is 10 times the value of the digit 9 in what other number? _____

A. 9,723 **B.** 793 **C.** 39 **D.** 9

A factory owner estimates that the factory can make 655,000 toy cars each week. Which number rounds to 655,000 when rounding to the nearest thousand? Choose Yes or No for each number.

		Yes	No
9.	655,289		
10.	658,213		
11.	654,602		
12.	655,555		
13.	654,399		

14. How can you round 385,122 to three different place-value positions?

Round to the nearest hundred thousand: _____

Round to the nearest ten-thousand: _____

Round to the nearest thousand: _____

15. a. How would you write 420,403 in expanded form?

_____

b. Rounding to the nearest thousand, what does 420,403 round to?

_____

Name _____

16. Look at the place-value chart.

Thousands Period			Ones Period		
hundreds	tens	ones	hundreds	tens	ones
4	6	0	1	5	7

Which statements are true about the number shown in the place-value chart? Choose all that apply.

A. The digit 1 is in the hundreds place.

B. The digit 5 is in the tens place.

C. There are 0 ten thousands.

D. The value of the digit 6 is 60,000.

E. The digit 4 is in the millions period.

F. The value of the digit 7 is 70.

Complete the table.

	Standard Form	Expanded Form	Word Form
17.		1,000,000 + 200,000 + 30,000 + 5,000 + 500 + 70 + 6	one million, two hundred thirty-five thousand, five hundred seventy-six
18.	820,412		
19.	97,026	90,000 + 7,000 + 20 + 6	

20. What is 378,249 rounded to the nearest hundred thousand?

_____

21. Write the largest number and the smallest number you can create using the given digits. Use each digit only once. Do not use 0 as the first digit.

4, 0, 6, 5, and 3

a. largest _____ **b.** smallest _____

Which representations are equivalent to 320,605? Choose Yes or No for each representation.

		Yes	No
22.	three hundred twenty thousand, six hundred five		
23.	300,000 + 20,000 + 600 + 5		
24.	3 hundred thousands 2 ten thousands 6 thousands 6 hundreds 0 tens 5 ones		

25. Zoe writes the following number in the place-value chart:

Thousands Period			Ones Period		
hundreds	tens	ones	hundreds	tens	ones
	1	2	0	1	9

Ralph makes a new 4-digit number. He uses the same digits as Zoe, but he removes the 0. He writes the digits in the same order. Write Ralph's number. Then, explain how the values of the digits in Ralph's number compare to the values of the digits in Zoe's number.

Unit **2**

Unit Assessment, Form B

Name _____

1. Which number has the digit 7 in the ones place, the digit 4 in the thousands place, and the digit 8 in the hundred thousands place?

A. 814,507 **B.** 814,570

C. 840,517 **D.** 840,571

2. How can you compare the numbers? Write >, <, or =.

10,420 ◯ 7,211

253,059 ◯ 253,207

64,719 ◯ 64,719

62,599 ◯ 179,880

3. Vince creates a table to display the heights of 3 different waterfalls.

Waterfall	Height (ft)
Tres Hermanas Falls	2,999
Olo'upena Falls	2,953
Yumbilia Falls	2,940

Which place-value position should Vince use to compare their heights?

A. ones place

B. tens place

C. hundreds place

D. thousands place

4. The value of the hundred thousands place is 10 times greater than the value of which place-value position?

A. millions

B. ten thousands

C. thousands

D. hundreds

5. Which of these represents 857,014? Choose all that apply.

A. Eight hundred fifty-seven thousand, fourteen

B. 800,000 + 50,000 + 7,000 + 10 + 4

C. Eighty-five thousand, seven hundred fourteen

D. 800,000 + 50,000 + 700 + 10 + 4

6. What is the value of the digit 5 in 76,509?

_____

7. What is 19,710 rounded to the nearest ten thousand?

_____

8. The value of the digit 8 in 816 is 10 times the value of the digit 8 in what other number? _____

A. 87 **B.** 608 **C.** 5,829 **D.** 8,001

A museum director estimates that 319,000 people will visit the museum each week. Which number of visitors round to 319,000 when rounding to the nearest thousand? Choose Yes or No for each number.

		Yes	No
9.	319,879		
10.	318,468		
11.	319,097		
12.	319,521		
13.	318,604		

14. How can you round 228,141 in different ways?

Round to the nearest hundred thousand: _____

Round to the nearest ten-thousand: _____

Round to the nearest thousand: _____

15. a. How would you write 272,403 in expanded form?

_____

b. Rounding to the nearest thousand, what does 272,403 round to?

_____

Unit Assessment, Form B (continued)

Name _____

16. Look at the place-value chart.

Thousands Period			Ones Period		
hundreds	tens	ones	hundreds	tens	ones
8	4	7	0	9	3

Which statements are true about the number shown in the place-value chart? Choose all that apply.

A. The digit 8 is in the hundred thousands place.

B. The digit 9 is in the hundreds period.

C. There are 0 thousands.

D. The digit 7 is in the thousands period.

E. The value of the digit 4 is 40,000.

F. The value of the digit 3 is 30.

Complete the table.

	Standard Form	Expanded Form	Word form
17.		500,000 + 30,000 + 1,000 + 70 + 6	Five hundred thirty-one thousand, seventy-six
18.	1,826,920		
19.	34,856	30,000 + 4,000 + 800 + 50 + 6	

20. What is 378,249 rounded to the nearest ten thousand?

_____

21. What is the largest number and the smallest number you can create using the given digits? Use each digit only once. Do not use 0 as the first digit.

4, 7, 2, 0, and 8

a. largest _____ **b.** smallest _____

Which representations are equivalent to 809,056? Choose Yes or No for each representation.

		Yes	No
22.	800,000 + 90,000 + 50 + 6		
23.	8 hundred thousands, 9 thousands, 5 tens, 6 ones		
24.	eight hundred nine thousand, fifty-six		

25. Grace writes the following number in the place-value chart:

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

Isabelle makes a new number. She uses the same digits as Grace, but she removes the 0. She writes the digits in the same order. Write Isabelle's number. Then explain how the values of the digits in Isabelle's number compare to the values of the digits in Grace's number.

Unit **2**

Performance Task

Name _____

Populations

Chicago, Illinois is one of the largest cities in the United States. Chicago is a city known for its media communications, business, fashion, and transportation.

The chart shows the population of Chicago in two recent years.

Population of Chicago	
Year	**Population**
2015	2,726,215
2018	2,705,994

Part A

Use the place-value chart to fill in Chicago's population for 2015 and 2018.

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

How do the 5s compare in the two population years? How does the place value chart help you determine this?

Part B

Use the population chart to write Chicago's 2015 and 2018 populations in expanded form. Explain how using expanded form could help you compare the populations.

Part C

Use the $>$ symbol to compare the two populations.

Determine which place value position to round the population to. About how much greater is the population between the two years? Explain why you chose the place value position that you did.

Part D

Explain your preferred way of rounding and why.