Grade 4

Reveal MATH ®

AVAILABLE
IN SPANISH

Differentiation
Sampler

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.

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.

Differentiation Resource Book

Unit 2: Generalize Place-Value Structure

- Reinforce Understanding
- Extend Thinking

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. <u>4</u>,<u>4</u>66; _____

6. 6<u>77</u>; _____

7. 8,<u>66</u>1; _____

8. <u>2</u>,<u>2</u>90; _____

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.

   9<u>8</u>,345   and   1<u>9</u>,026

   23,<u>6</u>70   and   <u>3</u>7,945

   68,<u>4</u>31   and   29,0<u>4</u>1

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.

Read and Write Numbers to One Million

Name _____

Review

A place value chart can help when reading and writing numbers.

Millions Period			Thousands Period			Ones Period		
hundreds	tens	ones	hundreds	tens	ones	hundreds	tens	ones
		3	5	4	6	1	8	9

Write the expanded form of the digits in 1,546,389.

1. 1 _____

2. 6 _____

3. 9 _____

4. 4 _____

Write these numbers in word form.

5. 1,522,100

6. 678,000

Write this number in standard form.

7. Nine hundred eighty-eight thousand, three hundred sixty-one

_____

Read and Write Numbers to One Million

Name _____

Reading and Writing World Populations

1. These numbers show approximate populations of various countries. Draw a line to its match.

Bhutan: 763,092

$600,000 + 10,000 + 5,000 + 700 + 200 + 9$

Solomon Islands: 669,823

three hundred thirty-nine thousand, thirty-one

Western Sahara: 582,463

$600,000 + 60,000 + 9,000 + 800 + 20 + 3$

Luxembourg: 615,729

two hundred ninety-nine thousand, eight hundred eighty-two

Iceland: 339,031

$500,000 + 80,000 + 2,000 + 400 + 60 + 3$

Vanuatu: 299,882

seven hundred sixty-three thousand, ninety-two

2. The approximate population of Cyprus is 1,198,575. Write this number in standard form, word form and expanded form.

Compare Multi-Digit Numbers

Name _____

Review

Use a place-value chart to help you compare multi-digit numbers.

TIP: Compare each digit from left to right until you reach one that is larger. That is the greater number!

40,389 and 40,590

hundred thousands	ten thousands	thousands	hundreds	tens	ones
	4	0	3	8	9
	4	0	5	9	0

Which number is greater? Use a place-value chart to help you compare.

1. 30,989 or 30,777 _____

2. 66,688 or 66,639 _____

3. 90,991 or 90,999 _____

4. 100,001 or 100,009 _____

Compare each pair of numbers using the symbols <, >, or =.

5. 77,890 ◯ 77,340

6. 68,892 ◯ 68,899

7. 922,781 ◯ 923,783

8. 174,223 ◯ 172,301

9. 82,531 ◯ 82,431

10. 22,890 ◯ 21,999

11. 123,456 ◯ 123,654

12. 398,450 ◯ 398,430

Compare Multi-Digit Numbers

Name _____

1. Compare these numbers. Then arrange them from least to greatest.

Numbers	Least to Greatest
88,980	**1.**
188,980	**2.**
1,888,990	**3.**
188,990	**4.**
88,990	**5.**
8,990	**6.**
1,888,980	**7.**
8,980	**8.**

2. Pick the two greatest numbers from the list. Compare them in two ways using the symbols <, >, or =.

Round Multi-Digit Numbers

Name _____

Review

Use a number line to help you round numbers. Round 78,289 to the nearest thousand.

78,000   78,289   79,000

78,289 is closer to 78,000 than to 79,000.

78,289 rounded to the nearest thousand is 78,000.

Use a number line to help you round each number.

1. Round 40,189 to the nearest hundred. _____

2. Round 64,688 to the nearest thousand. _____

3. Round 80,791 to the nearest ten. _____

4. Round 123,001 to the nearest ten-thousand. _____

Which rounding is the better estimate?

5. A school wants to have enough cookies for a parent event. Last year 345 parents came. One teacher said they should buy 300 cookies. Another teacher said they should buy 400 cookies.

Should the school round up or down? Explain your answer.

Round Multi-Digit Numbers

Name _____

Rounding in the Real World

Think about each situation. Decide if it is a good idea to round the number or if an exact number would be better. Explain your answer for each.

1. A contractor has calculated that he needs 365 bags of cement to finish a job. He doesn't want to have any extra cement after the job is complete. How many should he purchase?

2. A city needs to decide how many medals to order for a community fun run. Last year, 1,937 people participated in the race. How many should the city leaders order?

Think and Solve.

You want to go to a movie with your cousin. You remember the movie costing about $7.45 last time you went. Would you round down to $7 or round up to $8? Explain your reasoning?