# Grade 4



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# 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.

Revie	w
What is	the value of each digit in 4,321?
	4,321 Tip: Remember that each
	4 = 4,000 times the place value of
	3 = 300
	2 = 20
	1 = 1
8,935	
1. 8,935 1. 632	
1. 8,935 2. 632 3. 1,761	
1. 8,935 2. 632 3. 1,761 1. 472	
L 8,935 L 632 L 1,761 L 472 L 474 L 472 L 474 L	e underlined digits in each number below. Write the place ch. Then, tell how much greater the digit on the left is gif on the right.
1. 8,935 2. 632 3. 1,761 4. 472 .ook at the value of ea han the d 5. <u>4.4</u> 66;	e underlined digits in each number below. Write the place ch. Then, teil how much greater the digit on the left is gigt on the right.
1. 8,935 2. 632 3. 1,761 4. 472 Look at the value of exhan the d 5. 4,466; 5. 6 <u>77</u> ;	e underlined digits in each number below. Write the place ach. Then, tell how much greater the digit on the left is gigit on the right.
<ol> <li>8,935</li> <li>632</li> <li>1,761</li> <li>472</li> <li>ook at the alue of eithan the d</li> <li>4,466;</li> <li>677;</li> <li>8,661;</li> </ol>	e underlined digits in each number below. Write the place ch. Then, tell how much greater the digit on the left is git on the right.

Na	
Ar	alyze numbers using place value.
1.	Use your knowledge of place-value to tell how the underlined digits compare.
	98,345 and 19,026
	2 <u>3</u> ,670 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.

Na	me .					- 1
1.	Wha	at is four hundred fi	fty-one	written in standard	I	
	A.	415	в.	451		_
	c.	514	D.	541		
2.	Wha form	at is 3,000 + 200 + 1?	- 10 + 1	8 written in standar	d	
	А.	3,200	в.	3,210		_
	C.	3,218	D.	3,281		
3	Whi	ch digit is in the ter	is place	in 2.459?		
	Α.	2	В.	4		
	c.	5	D.	9		
4.	Wha	at is the value of the	e digit 2	2 in 4,299?		
	Α.	2,000	В.	200		_
	C.	20	D.	2		
5.	Kari	has 412 coins, and	Steve	has 421 coins. Who	has	
	the	greatest number of	coins?			_
	Α.	Kari because her of Steve's digit in the	ligit in t ones p	he ones place is gr lace.	eater than	
	в.	Steve because his	digit in	the tens place is g	reater than	
	c.	Kan's digit in the te They both have th	ens pla e same	number of coins		
	D.	Kari because she l	nas mo	re than 400 coins.		_
					Assessment Resource Book	(13)
	Mc	w Assessment				
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# 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

#### SAMPLE

#### **Unit 2: Generalize Place-Value Structure**

- Reinforce Understanding
- Extend Thinking

## Lesson 2-1 · Reinforce Understanding **Understand the Structure of Multi-Digit Numbers**



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.



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# 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.

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

2<u>3</u>,670 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.

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# Lesson 2-2 · Reinforce Understanding Read and Write Numbers to One Million

Name

#### Review

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

Millio	ons Pe	riod	Thous	sands F	<b>Period</b>	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

Differentiation Resource Book

# Lesson 2-2 · Extend Thinking 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.

<b>Bhutan:</b> 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
<b>Iceland:</b> 339,031	500,000 + 80,000 + 2,000 + 400 + 60 + 3
<b>Vanuatu:</b> 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.

#### Lesson 2-3 · Reinforce Understanding Compare Multi-Digit Numbers

Name

Review						
Use a plac compare r 40,389 ar	ce-value c nulti-digit 1d 40,590	hart to he numbers.	lp you	TIP: Comp left to righ one that is greater nu	are each dig ht until you r 5 larger. Tha 1mber!	git fra Teach It is tl
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 30,7772. 66,688 or 66,6393. 90,991 or 90,9994. 100,001 or 100,009Compare each pair of numbers using the symbols <, >, or =.5.  $77,890 \bigcirc 77,340$ 9.  $82,531 \bigcirc 82,431$ 6.  $68,892 \bigcirc 68,899$ 7.  $922,781 \bigcirc 923,783$ 10.  $22,890 \bigcirc 21,999$ 11.  $123,456 \bigcirc 123,654$ 
  - **12.** 398,450 () 398,430

**8.** 174,223 ( ) 172,301

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### Lesson 2-3 · Extend Thinking 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 =.

### Lesson 2-4 · Reinforce Understanding Round Multi-Digit Numbers

Name



#### 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?

 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.

# Lesson 2-4 · Extend Thinking 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?