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# Lesson Exemplar for Mathematics 5



Lesson Exemplar for Mathematics Grade 5 Quarter 2: Lesson 3 Week 3 SY 2024-2025

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Every care has been taken to ensure the accuracy of the information provided in this material. For inquiries or feedback, please write or call the Office of the Director of the Bureau of Learning Resources via telephone numbers (02) 8634-1072 and 8631-6922 or by email at blr.od@deped.gov.ph

#### MATHEMATICS/QUARTER 2/GRADE 5

I. CURRICULUM CONTENT, ST	ANDARDS, AND LESSON COMPETENCIES							
A. Content Standards	The learner should have knowledge and understanding of decimal numbers with decimal parts up to ten thousandths.							
B. Performance Standards By the end of the quarter, the learners are able to compare, order, and round decimals to the nearest or								
C. Learning Competencies and Objectives	<ol> <li>Determine:         <ul> <li>a. the place value to ten thousandths of a digit in a given decimal number,</li> <li>b. the value of a digit, and</li> <li>c. the digit of a number, given its place value.</li> </ul> </li> <li>Read and write decimal numbers with decimal parts to ten thousandths.</li> </ol>							
C. Content	Decimal Numbers with Decimal Parts up to Ten Thousandths							
D. Integration	Counting Money							

#### II. LEARNING RESOURCES

Base 10 Blocks (Thousands)-Kaleidospia [Photograph]. <a href="https://kaleidospia.com/products/base-10-blocks-thousands">https://kaleidospia.com/products/base-10-blocks-thousands</a>

International Bank Note Society. (n.d.). Title of the article. Retrieved from <a href="https://www.theibns.org/joomla/index.php?option=com\_content&view=article&id=862&catid=13&Itemid=51">https://www.theibns.org/joomla/index.php?option=com\_content&view=article&id=862&catid=13&Itemid=51</a>

Philippine ten-peso coin, Wikipedia [Photograph]. https://en.wikipedia.org/wiki/Philippine ten-peso coin

Place Value. Winston-Salem/Forsyth County School. Retrieved March 19, 2024, from <a href="https://www.wsfcs.k12.nc.us/cms/lib/NC01001395/Centricity/Domain/9064/5th%20grade%20math%20website.pdf">https://www.wsfcs.k12.nc.us/cms/lib/NC01001395/Centricity/Domain/9064/5th%20grade%20math%20website.pdf</a> Ten-Centavo Philippine Coin on the White Background, Stock Photo 123RF [Photograph]. <a href="https://www.123rf.com/photo-3583166">https://www.123rf.com/photo-3583166</a> ten-centavo-philippine-coin-on-white-background.html

"Which balance measurement can achieve a precision scales 0.0001 g?" (n.d.). Want Balance. Retrieved from https://www.wantbalance.com/new\_detail/nid/85832.html

505 Base 10 Blocks Royalty-Free Images, Stock Photos Shutterstock [Photograph]. <a href="https://www.shutterstock.com/zh/search/base-10-blocks?page=2">https://www.shutterstock.com/zh/search/base-10-blocks?page=2</a>

1,633 One Peso Coin Images, Stock Photos, 3D Objects Shutterstock[Photograph]. <a href="https://www.shutterstock.com/zh/search/philippine-peso-coin">https://www.shutterstock.com/zh/search/philippine-peso-coin</a>

Other Resources needed: Blocks, Bills and Coins, Place Value Chart, Place Value Disk (if available)

#### III. TEACHING AND LEARNING PROCEDURE **NOTES TO TEACHERS** A. Activating Day 1 Review how to read and write decimals up to **Short Review** hundredths of a place. **Prior** Knowledge Answers to the Short Review Activity: 1) 32.51 1) Let = 1 one or unit $\Box$ = 1 hundredth = 1 tenth What decimal number is represented by the set of blocks? 2) 2) Represent 27.30 pesos using bills and coins. 3) Write the following decimals in the Place Value Chart below. **a)** 5.2 b) 0.06 c) 43.48 **Tenths** Hundredths Tens Ones 5 2 a) Hundredths Tens Ones Tenths

	a) b) c)							b)	4	-	0 3		0 4	6 8	
B. Establishing Lesson Purpose		lo you think			next to I		dths?		wers: a) Tho	usand	ths				
	Millions Hundred Ten Thousands Hundreds Tens Ones . Tenths Hundredths ?  b) What do you think is the place value next to thousandths?  Millions Hundred Ten Thousands Hundreds Tens Ones Tenths Hundredths Thousandths ?  b) Ten Thousandths														
	c) How would you write the following decimals in the place value chart?  i) 0.016  ii) 40.9521							,	c)						
	Given Tens	Ten						Giv	en Tens	Ones		Tenths	Hundredths	Thousandths	Ten Thousandths
	i) ii)							i) ii)	4	0		9	5	6	2
													1		

	read as "thousandth  2. Unlocki The cons Decimal Place Value re										vill be	•	in Grade	e term and Six.
C. Developing and Deepening Understanding	1. Explicita Each dig value det The place value nex Example place val  Tens Example	SUB-TOPIC 1: Place Value and Value of a Digit in a Decimal Number up to Ten Thousandths  1. Explicitation Each digit in a number corresponds to a place value and has a value determined by its place.  The place value next to hundredths is thousandths and the place value next to it is ten thousandths.  Example 1: Write 0.693 in the place value chart and determine the place value and value of each digit.						Ex Pla	n also	o be don	Value Place	Tenths 6 of each	Hundredths 9 n digit in 0 e Value 0.6 s 0.09	Thousandths 3 .693:

Tens	Ones	Tenths	Hundredths	Thousandths	Ten Thousandths

**Example 3**: Write 5.555 in the place value chart and determine the place value and value of each digit.

Ones	Tenths	Hundredths	Thousandths

### Day 2

#### 2. Worked Example

Try the following activity:

Recall the Place Value Chart then determine the place value and value of the underlined digit.

- 1. 6.9<u>8</u>7
- 2. 0.34<u>5</u>
- 3. 2.<u>4</u>361
- 4. 1.9632

#### Answers:

- 1. 8 hundredths, 0.08
- 2. 5 thousandths, 0.005
- 3. 4 tenths, 0.4
- 4. 2 ten thousandths, 0.0002

Tens	Ones	Tenths	Hundredths	Thousandths	Ten Thousandths
	4	1	7	0	7

4.1707	Place Value	Value
<b>└</b>	ones	4
<u> </u>	tenths	0.1
<b>└</b>	hundredths	0.07
<b>└</b>	thousandths	0.000
-	ten thousandths	0.0007

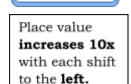
# Example 3:

Ones	Tenths	Hundredths	Thousandths
5	5	5	5

5.555	Place Value	Value
<b>└</b>	Ones	5
<b>└</b>	Tenths	0.5
Ц	Hundredths	0.05
	Thousandths	0.005

The teacher may also explain that:

Ones	Tenths	Hundredths	Thousandths
5	5	5	5



Place value decreases 10x with each shift to the right.

# 3. Lesson Activity

Write the correct answer on the line provided.

- 1. In 23.9872, digit 8 is in the \_\_\_\_\_ place. The value of digit 8 is \_\_\_\_\_.
- 2. In 67.3459, digit 9 is in the \_\_\_\_\_place. The value of digit 9 is \_\_\_\_\_.
- 3. In 0.3457, digit 3 is in the \_\_\_\_\_place. The value of digit 3 is \_\_\_\_\_.
- 4. In 1.092, digit 1 is in the \_\_\_\_\_place. The value of digit 1 is \_\_\_\_\_.
- 5. In 21.345, digit 5 is in the \_\_\_\_\_place. The value of digit 5 is \_\_\_\_\_.

#### Day 3

### SUB-TOPIC 2: Identifying the Digit Given Its Place Value

### 1. Explicitation

Each digit in a number corresponds to a place value. *Fill-in the missing place values in the chart.* 

- 4			_				
	Hundreds	?	Ones	?	?	Thousandths	?

Give the digit corresponding to the indicated place value.

- a) 8.564 thousandths
- b) 0.723 tenths
- c) 16.2011 tens
- d) 4.6529 ten thousandths

#### 2. Worked Example

Answer the following:

Hence, the digit 5 in one place is ten times the digit 5 in the tenth place, while the digit 5 in the thousandth place is one-tenth of the digit 5 in the hundredth place.

# See Learning Activity Sheet 1

Answers:

- 1. hundredths; 0.08
- 2. ten thousandths; 0.0009
- 3. tenths; 0.3
- 4. ones; 1
- 5. thousandths; 0.005

#### **SUB-TOPIC 2**

Answers to Explicitation

	Hundreds	Tens	Ones		Tenths	Hundredths	Thousandths	Ten Thousandths
--	----------	------	------	--	--------	------------	-------------	--------------------

- a) 4
- b) 7
- c) 1
- d) 9

Answers to Worked Example

Example 1

- a) 6; 7
- b) 0.06; 0.007

#### **Example 1:** Given the decimal 38.0672:

- a) What is the digit in the hundredths place? in the thousandths place?
- b) What is the value of the digit in the hundredths place? in the thousandths place?

#### **Example 2:** Given the decimal 987.1563:

- a) What is the digit in the hundreds place? in the ten thousandths place?
- b) What is the value of the digit in the hundreds place? in the ten thousandths place?

#### 3. Lesson Activity

Write the correct answer on the line provided.

- 1. In 132.8765, digit \_\_\_\_\_ is in the thousandths place.
- 2. In 1.6534, digit \_\_\_\_\_\_ is in the ten thousandths place.
- 3. In 23.7654, digit \_\_\_\_\_\_ is in the ones place.
- 4. In 574.8643, digit \_\_\_\_\_ is in the tens place.
- 5. In 34.9876, digit \_\_\_\_\_\_ is in the hundredths place.

#### Day 4

# SUB-TOPIC 3: Reading and Writing Decimal Numbers Up to Ten Thousandths

### 1. Explicitation

A. Study the illustration then fill-in the blank with the correct number.

#### Example 2

- a) 9; 3
- b) 900; 0.0003

#### See Learning Activity 2

Answers:

- 1. 6
- 2. 4
- 3. 3
- 4. 7
- 5. 8

It is important to note that in this part, the base ten blocks represent different values. A block or cube represents ones, a flat represents tenths, a rod or long represents hundredths and a unit represents thousandths.

Answer to Explicitation

A. 0.004 (four thousandths)

This block is made up of 1,000 units.	
This is a unit. It is 0.001 (one thousandth) of a block. Therefore,	
This time, ifof a block.	
$= 1 \text{ tenth}$ $= 1 \text{ hundredth} \text{ and } \square = 1 \text{ thousandth}$	В.
Decimal numbers may be written in figures/numerals or words.  To read a decimal number, read the whole number part first then read the decimal point as "and", finally, say the place value of the last digit.	<ul> <li>a) 0.025</li> <li>b) 0.150</li> <li>c) 3.002</li> <li>d) 5.082</li> <li>e) 44.092</li> </ul>
Example: 45.082 is read as "forty-five and eighty-two thousandths".	C.
B. Write the following numbers in figures/numerals.  a) Twenty-five thousandths b) One hundred fifty thousandths c) Three and two thousandths d) Five and eighty-two thousandths e) Forty-four and ninety-two thousandths	<ul> <li>a) sharp pencil point; tip of a sewing needle</li> <li>b) one thousandth</li> <li>D. a) heavier</li> <li>b) feather, cotton, grain of sand, powder</li> <li>c) one ten thousandth</li> </ul>
<ul><li>C. A millimeter is 0.001 of a meter.</li><li>Show 1mm or 0.001m using a meter stick and ruler.</li><li>a) Can you think of objects measuring about 0.001 meter?</li><li>b) How would you write 0.001 in words?</li></ul>	

- D. Analytical balances can usually achieve an accuracy of 0.0001 gram. Analytical balances are designed for high precision and precision weighing and are used in scientific, educational and industrial laboratories.
  - a) Is 1 milligram heavier or lighter than 0.0001 gram?
  - b) Can you think of objects that can weigh about 1 mg?
  - c) How would you write 0.0001 in words?
- E. Write the following in figures/numerals:
  - a) Seven ten thousandths
  - b) Twelve and eighty-six ten thousandths
  - c) One hundred nine ten thousandths
  - d) One and twenty-six ten thousandths
  - e) Twelve and nine hundred thirty-three ten thousandths

#### 2. Worked Examples

A. Read and answer the following:



- A 1 000 peso-bill can be exchanged with 1 000 one-peso coins.
  - a) What is one thousandth of 1 000 pesos?
  - b) How much is 75 thousandths of 1 000 pesos?
- B. Write the numbers in the Place Value Chart then write in words.
  - a) 0.057
- b) 702.316
- c) 45.1922

E.

- a) 0.0007
- b) 12.0086
- c) 0.0109
- d) 1.0026
- e) 12.0933

Answers to Worked Examples

A.

- a) 1 peso
- b) 75 pesos

В.

ı								
	Hundreds	Tens	Ones	•	Tenths	Hundredths	Thousandths	Ten Thousandths
			0		0	5	7	
	7	0	2		3	1	6	
		4	5		1	9	2	2

Word Form

- a) fifty-seven thousandths
- b) seven hundred two and three hundred sixteen thousandths
- c) forty-five and one thousand nine hundred twenty-two ten thousandths

	Hundreds Tens Ones . Tenths Hundredths Thousandths Ten Thousandths								
	c)  Day 5 3. Lesson A Write the fol a) Seven b) Two 1 c) Three d) four 1 e) sixty- f) Two	Activity Ilowing Ilowing Inty-nin Inundre Ite and to Ite tho Ite ight to	word e tho d fifte welve usan en th	ls in usar een tho dths	figures/nadths thousandth usandths andths		See Learning Activity Sheet 3 Answers: a) 0.079 b) 0.215 c) 3.012 d) 0.0004 e) 0.0068 f) 2.5735		
D. Making Generalizations	<ul> <li>1.Learners' Takeaways <ul> <li>A. Explain how to read numbers with 3 decimal places.</li> <li>B. Explain how to read numbers with 4 decimal places.</li> </ul> </li> <li>2.Reflection on Learning <ul> <li>Give instances when these lessons can be of help to you.</li> </ul> </li> </ul>							Answers to Learners' Takeaways  A. Read the whole number part, then read the decimal point as "and", then read the decimal part just like how you read whole numbers, then say "thousandths" (this is the place value of the last digit).  B. Read the whole number part, then read the decimal point as "and", then read the decimal	

	part just like how you read whole numbers, then say "ten thousandths" (this is the place value of the last digit).
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IV. EVALUATING LE	EARNING: FORMATIVE AS	NOTES TO TEACHERS		
A. Evaluating Learning	Formative Assessment A. In 0.0358, a) Which is the thousand b) Which is the ten tho c) What is the value of d) What is the value of e) which has a bigger withousandths digit?  B. Write the word form of C. Write five and seventee	usandths digit? the thousandths dig the ten thousandths alue, the thousandth 7.002.	Answers: A. a) 5 b) 8 c) 0.005 d) 0.0008 e) thousandths digit  B. seven and two thousandths  C. 5.0017	
<i>B</i> . Teacher's Remarks	Note observations on any of the following areas:	Effective Practices	Problems Encountered	Teachers are encouraged to record relevant
	strategies explored		observations or any critical teaching events that influence the attainment of the lesson objectives.	
	materials used			Use or modify the provided template in recording the notable instructional areas or concerns.
	learner engagement/ interaction	In addition, notes here can also be on tasks that will be continued the next day or additional activities needed.		
	others			
C. Teacher's Reflection			Entries on this section are teacher's reflections about the implementation of the whole lesson, which will serve as input for the LAC sessions. Use or modify the provided guide questions in eliciting teacher's insights.	

<ul> <li><u>students</u>         What roles did my students play in my lesson?         What did my students learn? How did they learn?</li> </ul>	
<ul> <li>ways forward         What could I have done differently?         What can I explore in the next lesson?</li> </ul>	