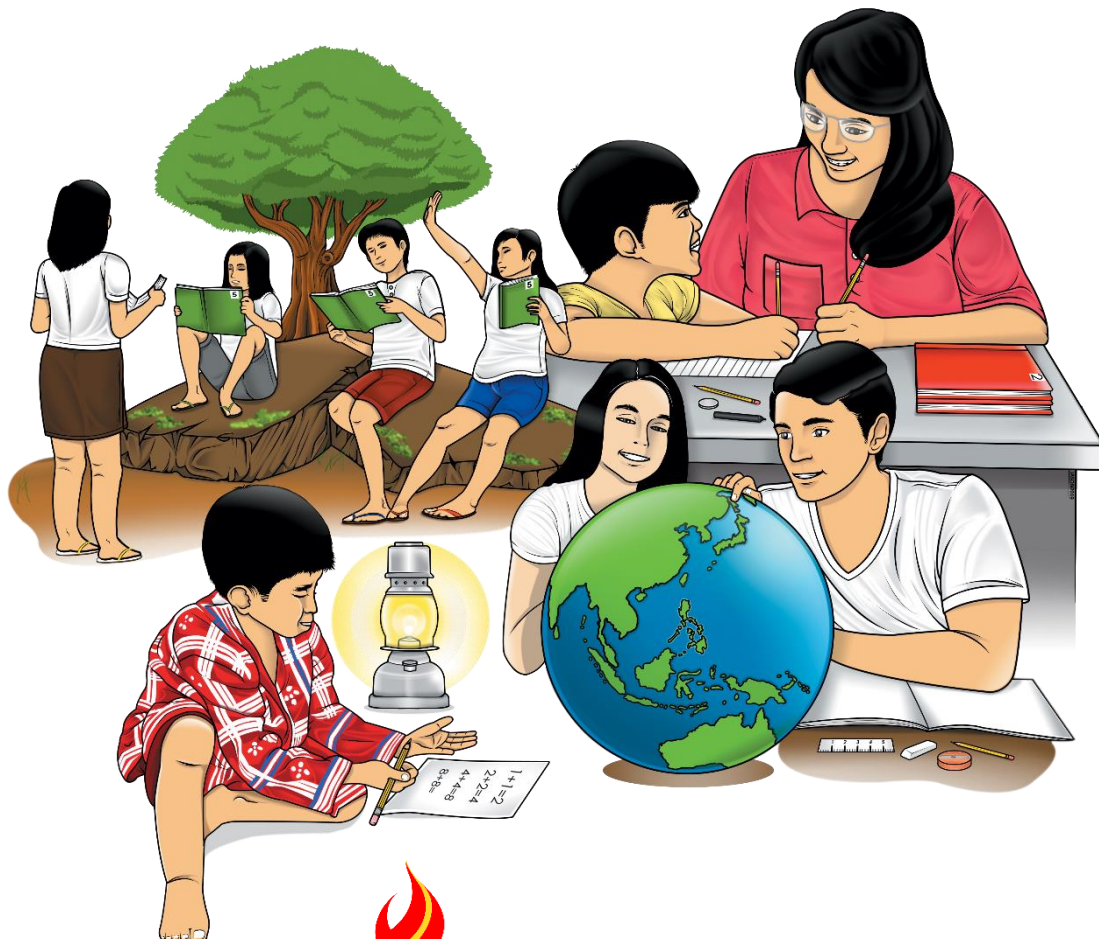


Mathematics

Quarter 2 – Module 2: Reading and Writing Decimal Numbers



Mathematics – Grade 5
Alternative Delivery Mode
Quarter 2 – Module 2: Reading and Writing Decimal Numbers
First Edition, 2020

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Mathematics

Quarter 2 – Module 2: Reading and Writing Decimal Numbers

Introductory Message

This Self-Learning Module (SLM) is prepared so that you, our dear learners, can continue your studies and learn while at home. Activities, questions, directions, exercises, and discussions are carefully stated for you to understand each lesson.

Each SLM is composed of different parts. Each part shall guide you step-by-step as you discover and understand the lesson prepared for you.

Pre-tests are provided to measure your prior knowledge on lessons in each SLM. This will tell you if you need to proceed on completing this module or if you need to ask your facilitator or your teacher's assistance for better understanding of the lesson. At the end of each module, you need to answer the post-test to self-check your learning. Answer keys are provided for each activity and test. We trust that you will be honest in using these.

In addition to the material in the main text, Notes to the Teacher are also provided to our facilitators and parents for strategies and reminders on how they can best help you on your home-based learning.

Please use this module with care. Do not put unnecessary marks on any part of this SLM. Use a separate sheet of paper in answering the exercises and tests, and read the instructions carefully before performing each task.

If you have any questions in using this SLM or any difficulty in answering the tasks in this module, do not hesitate to consult your teacher or facilitator.

Good luck and happy learning!



What I Need to Know

Good day, mathletes!

This module was designed to help you gain understanding on reading and writing numbers through ten thousandths. Reading and writing decimals are very much important when dealing with real-life problems involving decimals. Your knowledge on the place value which was taken up in the previous lesson will surely help you understand the lesson at hand. A step-by-step process is given in this module to help you read and write decimals in the easiest way.

Furthermore, this module comprises two lessons: lesson 1 focuses on the reading of decimals through ten thousandths, and lesson 2 stresses on writing decimal numbers through ten thousandths. Sufficient discussion and examples are provided for you to understand the concepts more fully.

After going through this module, you are expected to:

1. enumerate the steps in reading and writing decimal numbers through ten thousandths;
2. value the importance of following instructions; and
3. read and write decimal numbers through ten thousandths.

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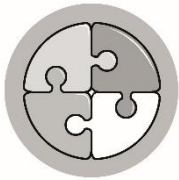


What I Know

Directions: Read each statement below carefully. Choose the letter that corresponds to the best answer, then write it on a separate sheet of paper.

- Which is the correct word form of **8.16**?
 - Eight and sixteen tenths
 - Eight and sixteen hundredths
 - Eight hundred sixteen hundredths
 - Eight hundred sixteen thousandths
- A peso coin has a diameter of 0.023 meter. What is **0.023** if written in words?
 - Twenty-three tenths
 - Twenty-three hundredths
 - Twenty-three thousandths
 - Twenty-three ten thousandths
- What is **43.579** if written in words?
 - Forty-three and five hundred seventy-nine tenths
 - Forty-three and five hundred seventy-nine hundredths
 - Forty-three and five hundred seventy-nine thousandths
 - Forty-three and five hundred seventy-nine ten thousandths
- Which one below is the other way of writing **fifty-six thousandths**?
 - 0.56
 - 0.056
 - 0.0056
 - 0.00056
- Which figure below is equivalent for **one hundred twenty-eight and four hundredths**?
 - 128.4
 - 128.04
 - 128.004
 - 128.0004
- Which of the following is the correct order of the steps in reading a decimal number?
 - Say the word *and* for the decimal point
 - Say the whole number
 - Say the place name for the last digit.
 - Say the number to the right of the decimal point as though it were a whole number.
 - A-B-C-D
 - B-C-A-D
 - B-A-D-C
 - A-C-D-B
- The width of a book measures 15.8 cm. What is **15.8** written in word form?
 - Fifteen and eight tenths
 - Fifteen and eight hundredths
 - One hundred fifty-eight hundredths
 - One hundred fifty-eight thousandths

8. The following statements are **TRUE** except for one. Which one is it?
- A. The place value of the last digit of a decimal name its value.
 - B. A zero before the decimal point means the decimal has no whole number part.
 - C. Knowledge on place value is important in reading a decimal number.
 - D. All zeros in this decimal number 0.0064 have value.
9. The following are steps in writing decimal in words using digits. Which one is the **second step**?
- A. Use a decimal point for the word *and*.
 - B. Place zeros on the place value where there are no non-zero digits.
 - C. Write the whole number.
 - D. Write the decimal part.
10. Which number is equivalent to **four ten thousandths**?
- | | |
|-----------|-----------|
| A. 0.014 | C. 0.004 |
| B. 0.0014 | D. 0.0004 |

Lesson**1****Reading Decimal Numbers
through Ten Thousandths*****What's In***

In the previous module, you learned the concept of **Place Value**. To read, write and order decimals properly, you need to master what all the decimal place values are. A place value is the position of the digit in a number. It determines the value that the number holds. For an easy understanding, a **place value chart** is used.

Below is the place value chart. Study it very carefully.

Place Value	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths	Hundredths	Thousandths	Ten Thousandths
Value	1,000	100	10	1	•	1	01	001	0001

The chart illustrates the first four positions to the left and the first four positions to the right of the decimal point. It indicates the **place value** and **value of a number** based on the position of the digit.

	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths 0.1	Hundredths 0.01	Thousandths 0.001	Ten Thousandths 0.0001
462.9375		4	6	2	.	9	3	7	5
Value of the digit		400	60	2		0.9	0.03	0.007	0.0005

Consider this example. Study and understand this place value chart.

Based on the given chart, the digit 6 is in the **tens** place while the digit 7 is in the **thousandths** place. Their values would be 60 and 0.007, respectively.

Clearly, the place value chart helps you in giving the place value and the value of a digit in a decimal number.

Let us test your prior knowledge on giving the place value and the value of a digit in a decimal number by doing the exercise below.

Directions: Plot each digit in the place value chart. Determine the place value and the value of the digit given below. Write your answers on the appropriate boxes. The first item is already done for you. When you are done, proceed to complete the second table. The first one is also done as your guide.

	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths 0.1	Hundredths 0.01	Thousandths 0.001	Ten Thousandths 0.0001
a) 0.375				0	.	3	7	5	
b) 42.9									
c) 0.0168									

Digit of the number	Place Value	Value of the Digit
3	Tenths	0.3
7		
5		
4		
2		
9		
1		
6		
8		

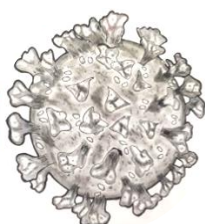
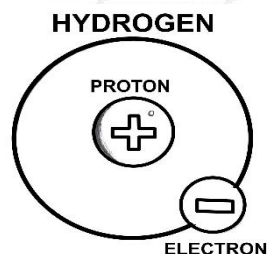
Remember to master the Place Values to correctly read and write decimal numbers.

As we all know, Mathematics generally use English for its technical terms. This having been emphasized, please do observe the correct spelling of the numbers and place values when writing decimal numbers in words to ensure that your answers are correct (e.g., tens and tenths are different from each other; hundreds and hundredths, thousands, and thousandths, and so on).



What's New

There are things on earth that are very tiny which cannot be seen through our naked eyes, like the atom or the Coronavirus. These things are measured and expressed in decimal numbers. For example, the calculated radii of a hydrogen atom are 53 picometer which is equal to 0.000000053 millimeter.



On the other hand, the Coronavirus diameter is approximately from 60 to 140 nanometer or 0.00006 millimeter to 0.00014 mm. Also, the value of money can be expressed in decimal numbers. For example, the exchange rate of a peso to a dollar on May 18, 2020, amounted to P 50.5880 per dollar.

BANGKO SENTRAL NG PILIPINAS FINANCIAL MARKET OPERATIONS SUB-SECTOR REFERENCE EXCHANGE RATE BULLETIN May 18, 2020					
COUNTRY	UNIT	SYMBOL	EURO EQUIVALENT	U.S.DOLLAR EQUIVALENT	PHIL.PESO EQUIVALENT
I. CONVERTIBLE CURRENCIES WITH BANGKO SENTRAL:					
1 UNITED STATES	DOLLAR	USD	0.924471	1.000000	50.5880
2 JAPAN	YEN	JPY	0.008630	0.009335	0.4722
3 UNITED KINGDOM	POUND	GBP	1.117223	1.208500	61.1356
4 HONGKONG	DOLLAR	HKD	0.119276	0.129021	6.5269
5 SWITZERLAND	FRANC	CHF	0.951885	1.029654	52.0881
6 CANADA	DOLLAR	CAD	0.655234	0.708767	35.8551
7 SINGAPORE	DOLLAR	SGD	0.647978	0.700918	35.4580
8 AUSTRALIA	DOLLAR	AUD	0.592771	0.641200	32.4370
9 BAHRAIN	DINAR*	BHD	2.449124	2.649217	134.0186
10 KUWAIT	DINAR	KWD	N/A	N/A	N/A
11 SAUDI ARABIA	RIYAL	SAR	0.246164	0.266276	13.4704
12 BRUNEI	DOLLAR	BND	0.645715	0.698470	35.3342
13 INDONESIA	RUPIAH	IDR	0.000062	0.000067	0.0034
14 THAILAND	BAHT****	THB	0.028800	0.031153	1.5760
15 UNITED ARAB EMIRATES	DIRHAM	AED	0.251700	0.272264	13.7733
16 EUROPEAN MONETARY UNION	EURO	EUR	1.000000	1.081700	54.7210
17 KOREA	WON	KRW	0.000750	0.000811	0.0410
18 CHINA	YUAN**	CNY	0.130185	0.140821	7.1239

These are only few of the many instances that talk about or involve decimals. Study and familiarize the table above.

Clearly, there is a need for us to study and learn decimal numbers. With this, it is important that we know how to read decimals. To help us read decimal numbers, a step-by-step process is introduced in the next portion of this module.

Are you ready now? You can have an extra sheet of paper and pen with you for you to practice as you follow through the steps for each guided example.



What Is It

In this lesson, you will learn about **reading decimal numbers**.

For this purpose, we will take the peso-dollar exchange rate given in the previous part. According to the table from Bangko Sentral ng Pilipinas (BSP), as of May 18, 2020, the peso-dollar exchange rate is Php 50.5880 to a dollar.

How do you read **50.5880**? Do you know?

Here is the step-by-step process:

Step 1: Write the digits in the appropriate boxes of the place value chart.

	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths 0.1	Hundredths 0.01	Thousandths 0.001	Ten Thousandths 0.0001
50.5880			5	0	•	5	8	8	0

Step 2: Read the number to the left of the decimal place as whole number.

- **50** is read as **fifty**.

Step 3: Read the decimal point as “**and**”.

- **50.** is read as **fifty and**.

Step 4: Read the number to the right of the decimal place as whole number.

- **5 880** is read as **five thousand eight hundred eighty**.

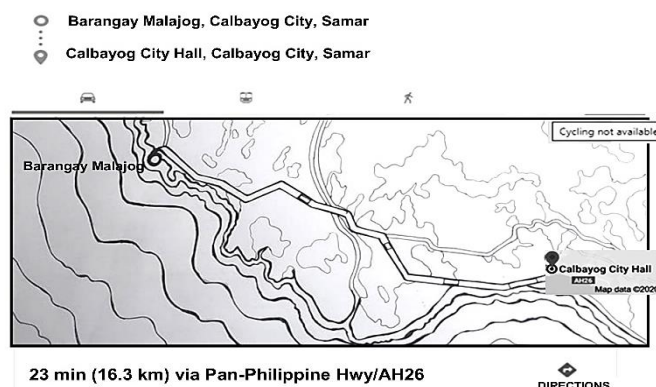
Step 5: When you’re done reading the number to the right of the decimal point, say the place value of the last digit.

- In **5 880**, the last digit is **0** and its place value is **ten thousandths**. So, it will be read as **five thousand eight hundred eighty ten thousandths**.

Therefore, **50.5880** will be read as **fifty and five thousand eight hundred eighty ten thousandths**.

Here is another example for you to better understand the topic. Please consider the situation below.

Every Friday, teacher Mary Meldred Normor rides her car from her residence in Brgy. Malajog heading to Calbayog City Hall. Based on the Google Map, she finds its distance to be 16.3 km if she travels via the Pan-Philippine Highway.



In the above situation, how will you correctly read the distance travelled by teacher Mary Meldred Normor?

To read the decimal number **16.3**, the following steps must be followed:

Step 1: Write the digits in the appropriate boxes of the place value chart.

	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths 0.1	Hundredths 0.01	Thousandths 0.001	Ten Thousandths 0.0001
16.3			1	6		3			

Step 2: Read the number to the left of the decimal place as whole number.

- **16** is read as **sixteen**.

Step 3: Read the decimal point as “**and**”.

- **16.** is read as **sixteen and**.

Step 4: Read the number to the right of the decimal place as whole number.

- **3** is read as **three**.

Step 5: When you’re done reading the number to the right of the decimal point, say the place value of the last digit.

- Since **3** is the only digit to the right of the decimal point, we will consider it the last digit and we will read its place value which is **tenths**. Thus, we read it as **three tenths**.

Therefore **16.3** will be read as **Sixteen and three tenths**.

Suppose the given decimal is **0.15**. Take note that the whole number part of the decimal is **0**. In this case, we proceed from Step 1 directly to Step 3 without performing Step 2; thus, we have:

Step 1: Write the digits in the appropriate boxes of the place value chart.

	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths 0.1	Hundredths 0.01	Thousandths 0.001	Ten Thousandths 0.0001
0.15				0	•	1	5		

Step 4: Read the number to the right of the decimal point as whole number.

➤ **15** is read as **fifteen**

Step 5: When you're done reading the number to the right of the decimal point, say the place value of the last digit.

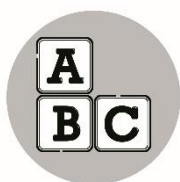
➤ In **15**, the last digit is **5** and its place value is ***hundredths***. So, it will be read as **fifteen hundredths**.

Therefore, the decimal number **0.15** will be read as **fifteen hundredths**.

Clearly, when the decimal has no whole number part, you just say the decimal name.

Now that you already know how to read a given decimal number, please be confident that you can do more. Now, be ready to answer the exercises that follow.

Before you finalize your answers, make sure that you have a pen and clean extra sheet of paper with you to write on. Do not make any unnecessary writings in this module.



What's More

Let us find out how well you have understood the concept on reading a given decimal number by doing the exercises one at a time. You can check your answers later against the given key to corrections at the end of this module. But while answering, please be honest and refrain from checking the attached answers key for you to measure your learning and for a fulfilling self-assessment.

EXERCISE NO. 1

Directions: Write the corresponding word form of the following decimals. Follow the step-by-step process. Step 1 of item number 1 is done for you.

1) 12.0367

Step 1: Write the digits in the appropriate boxes of the place value chart.

	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths 0.1	Hundredths 0.01	Thousandths 0.001	Ten Thousandths 0.0001
12.0367			1	2	•	0	3	6	7

Step 2: Read the number to the left of the decimal point as whole number.

➤ _____

Step 3: Read the decimal point as “and”.

➤ _____

Step 4: Read the number to the right of the decimal point as whole number.

➤ _____

Step 5: When you're done reading the number to the right of the decimal point, say the place name of the last digit.

➤ _____
_____.

Therefore, the decimal number **12.0367** will be read as:

2) **9.704**

Step 1: Write the digits in the appropriate boxes of the place value chart.

	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths 0.1	Hundredths 0.01	Thousandths 0.001	Ten Thousandths 0.0001
9.704					•				

Step 2: Read the number to the left of the decimal point as whole number.

➤ _____

Step 3: Read the decimal point as **“and”**.

➤ _____

Step 4: Read the number to the right of the decimal point as whole number.

➤ _____

Step 5: When you’re done reading the number to the right of the decimal point, say the place name of the last digit.

➤ _____
_____.

Therefore, the decimal number **9.704** will be read as:

EXERCISE NO. 2

Directions: Match each decimal number in **Column A** by writing the letter that corresponds to the appropriate word forms in **Column B**. Write your answers on a separate sheet of paper.

COLUMN A		COLUMN B
_____ 1.	0.4	A. Four ten thousandths
_____ 2.	98.75	B. Ninety-eight and seventy-five ten thousandths
_____ 3.	0.0004	C. Four tenths
_____ 4.	98.0075	D. Nine and eight hundred seventy-five ten thousandths
_____ 5.	9.875	E. Ninety-eight and seventy-five hundredths
		F. Nine and eight hundred seventy-five thousandths

EXERCISE NO. 3

Directions: Read and answer the following carefully.

- A. Based on the given clues, form the correct decimal numbers using the place value chart and write their corresponding word forms. The first one is done for you as your guide.

- 1) 8 in the hundredths place 6 in the ones place
5 in the tenths place 3 in the tens place

	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths 0.1	Hundredths 0.01	Thousandths 0.001	Ten Thousandths 0.0001
			3	6	.	5	8		

Answer: **Thirty-Six and fifty-eight hundredths**

- 2) 7 in the thousandths place 2 in the tenths place
1 in the ten thousandths place 0 in the hundredths place

	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths 0.1	Hundredths 0.01	Thousandths 0.001	Ten Thousandths 0.0001
					.				

Answer: _____

- 3) 5 in the tenths place 3 in the ten thousandths place
9 in the tens place 6 in the ones place

	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths 0.1	Hundredths 0.01	Thousandths 0.001	Ten Thousandths 0.0001
					.				

Answer: _____

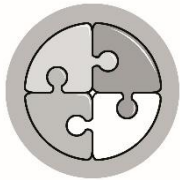
- B. Write each decimal in words. The first one is done for you. You can go back to the previous activities for your guide. Make sure that you write the correct spelling of the numbers and place values to make your answers correct.

- 1) 8.0035
- 2) 12.059
- 3) 24.5008
- 4) 84.0712
- 5) 107.392

Eight and thirty-five ten thousandths

Lesson 2

Writing Decimal Numbers through Ten Thousandths



What's In

In the previous lesson, you learned about reading decimal numbers. To do this, a step-by-step process was thoroughly discussed. Following these steps will help you read correctly a given decimal number.

Please consider the example given below.

Follow these steps to read the decimal 12.0054.

Step 1: Write the digits in the appropriate boxes of the place value chart.	<table><tr><td>Thousands</td><td>Hundreds</td><td>Tens</td><td>Ones</td><td>Decimal Point</td><td>Tenths 0.1</td><td>Hundredths 0.01</td><td>Thousandths 0.001</td><td>Ten Thousandths</td></tr><tr><td></td><td></td><td>1</td><td>2</td><td>•</td><td>0</td><td>0</td><td>5</td><td>4</td></tr></table>	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths 0.1	Hundredths 0.01	Thousandths 0.001	Ten Thousandths			1	2	•	0	0	5	4
Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths 0.1	Hundredths 0.01	Thousandths 0.001	Ten Thousandths											
		1	2	•	0	0	5	4											
Step 2: Read the number to the left of the decimal point as whole number.	Twelve																		
Step 3: Read the decimal point as “and”.	Twelve and																		
Step 4: Read the number to the right of the decimal point as whole number.	Twelve and fifty-four																		
Step 5: When you’re done reading the number to the right of the decimal point, say the place name of the last digit.	Twelve and fifty-four ten thousandths																		

Let's check your understanding on reading decimals.

Write each decimal in words. The first one is done for you.

1. 5.18 **Five and eighteen hundredths**

2. 0.396 _____

3. 9.0205 _____

4. 7.3 _____

5. 2.008 _____



What's New

When you are reading books, stories or any form of writing, there are times that you will encounter an article containing a decimal but written in words form like the example given below.

Did you know that...

Caliper refers to the thickness of a sheet of paper expressed in **thousandths** and **hundred thousandths** of an inch. This measurement is taken with a micrometer. Normally, paper caliper should not have more than a + or - 5% variance within a sheet.

A bond paper (flat finish, 17x22) of substance 20 has a caliper of **thirty-five ten thousandths** while that of substance 24 has **four thousandths** caliper.



How do you compare these two measurements? Which one is thicker?

To compare these decimals, we will write them in digit form. If so, how do we translate the above decimals in words to the digit form?

The step-by-step process in writing a decimal from word form to digit form is discussed in the next part of this module.



What Is It

In this lesson, you will learn about writing decimal numbers from word form to digit form. Read and comprehend the steps given below.

How will you write **thirty-five ten thousandths** in digit form? Do you know?

For you to do this, you need to follow the step-by-step process in writing decimals. Here it is!

Step 1: Write the whole number. If there is none, write zero. Zeros are only placeholders.	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths 0.1	Hundredths 0.01	Thousandths 0.001	Ten Thousandth
				0					
Step 2: Use a decimal point for the word “and” .	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths 0.1	Hundredths 0.01	Thousandths 0.001	Ten Thousandth
				0	•				
Step 3: Think of how many places you need after the decimal point. “Ten thousandths” is four places after the decimal point.	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths 0.1	Hundredths 0.01	Thousandths 0.001	Ten Thousandth
				0	•			3	5
Step 4: Write zeros for the place values without any given numbers. The zeros in the tenths and hundredths have no values but are needed as placeholders.	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths 0.1	Hundredths 0.01	Thousandths 0.001	Ten Thousandth
				0	•	0	0	3	5

Therefore, **thirty-five ten thousandths** is written as **0.0035**.

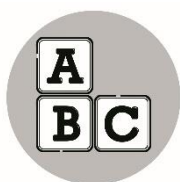
Let us take another example. Are you ready?

Write **sixteen and forty-three thousandths** using digits.

Step 1: Write the whole number.	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths 0.1	Hundredths 0.01	Thousandths 0.001	Ten Thousandth
			1	6					
Step 2: Use a decimal point for the word “ <i>and</i> ”.	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths 0.1	Hundredths 0.01	Thousandths 0.001	Ten Thousandth
			1	6	•				
Step 3: Think of how many places you need after the decimal point. “Thousandths” is three places after the decimal point.	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths 0.1	Hundredths 0.01	Thousandths 0.001	Ten Thousandth
			1	6	•		4	3	
Step 4: Write zeros for the place values without any given numbers. The zero in the tenths has no value but is needed as a placeholder.	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths 0.1	Hundredths 0.01	Thousandths 0.001	Ten Thousandth
			1	6	•	0	4	3	

Therefore, we write **sixteen and forty-three thousandths** as **16.043**.

Now, you already know how to write decimals from words to digits. However, you need to practice more to master this lesson. So, try to answer the exercises that follow.



What's More

This time, let us find out how well you have understood the topic on writing decimals from words to digits. You can check your answers against the given key to corrections found at the end of this module. But while answering, try not to look at the given answers key for you to check your learnings and your progress as well.

EXERCISE NO. 1

Directions: Write the following as decimals. Follow the step-by-step process. The first item is done for you for your guide on the succeeding numbers.

- two and sixty-five thousandths
- four-hundredths
- five and two-thousandths
- eight hundred and thirty-one ten thousandths
- twelve and twelve thousandths

1. Two and sixty-five thousandths

Step 1: Write the whole number. If there is none, write zero. Zeros are only placeholders.	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths 0.1	Hundredths 0.01	Thousandths 0.001	Ten Thousandths 0.0001
				2					
Step 2: Use a decimal point for the word “and” .	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths 0.1	Hundredths 0.01	Thousandths 0.001	Ten Thousandths 0.0001
				2	•				
Step 3: Think of how many places you need after the decimal point. “Thousandths” is three places after the decimal point.	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths 0.1	Hundredths 0.01	Thousandths 0.001	Ten Thousandths 0.0001
				2	•		6	5	
Step 4: Write zeros for the place values without given numbers. The zero in the tenths has no value but is needed as a placeholder.	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths 0.1	Hundredths 0.01	Thousandths 0.001	Ten Thousandths 0.0001
				2	•	0	6	5	

Therefore, we write **two and sixty-five thousandths** as **2.065**.

EXERCISE NO. 2

Directions: Write each decimal using digits. The first one is already done as your reference. Use a different sheet of paper for your answers.

1. Thirty-four and three hundred fifty-one ten thousandths **34.0351**
2. Eight and seventy-five hundredths _____
3. Seven hundred ninety-seven thousandths _____
4. One and seven thousand eighty-nine ten thousandths _____
5. Five hundred sixty-two and four tenths _____

Now, let us check if you have already mastered the step-by-step process in writing decimal numbers.



What I Have Learned

Using what you have learned, answer the following questions below. Observe honesty for a reliable self-assessment.

1. What are the steps in **reading** decimal numbers through ten thousandths?

Step 1: _____
Step 2: _____
Step 3: _____
Step 4: _____
Step 5: _____

2. What are the steps in **writing** decimal numbers through ten thousandths?

Step 1: _____
Step 2: _____
Step 3: _____
Step 4: _____

3. What other learning/s have you acquired?

I also learned that _____

_____.

Take note that life is full of Math, and Mathematics is not just about numbers, equations, computations, or algorithms: it is about Understanding. Even with this lesson in reading and writing decimals, we encounter a lot of these in our day-to-day situations. Thus, comprehension and mastery of the lesson is deemed important. The next activities will surely level up your learning. Good luck and have fun.



What I Can Do

A. **Directions:** Below are different situations that include information in decimal form as application in our daily life experiences and encounters. Write the corresponding word form of the decimals in each given situation. The first item is done for you as your reference.

1. A mechanic is working on a metal frame. He used a piece of metal that measures **2.015** cm thick.

Answer: **Two and fifteen thousandths**

2. During this COVID-19 pandemic, taking body temperature is required as one of the minimum health safety protocols. The maximum normal body temperature is **37.2** degrees centigrade.

Answer: _____

3. Jose saved a 10-Hong Kong dollar given by her sister working as OFW in Hong Kong. He received **65.269** pesos when he exchanged it at a money changer station.

Answer: _____

4. The body of an average man contains about **1.5** gallons of blood while the body of an average woman contains about **1.075** gallons.

Answer/s: _____

B. **Directions:** Below are different situations which include information in decimal form. The given situations are usually our daily experiences and encounters in life. Write the corresponding word form of the decimals in each given situation. The first item is done for you.

1. The average speed of a commuter train is **forty-five and fifty-four ten thousandths** kilometers per hour. Answer: **45.0054**

2. The thickness of a strip of metal is **one and twelve thousandths** centimeter. Answer: _____

3. The perimeter of a rectangular lot is **twenty-five and seventy-five ten thousandths**. Answer: _____

4. A plane's speed averages **four hundred forty-three and eight tenths** kilometers per hour. Answer: _____

5. A pair of shoes is sold at **nine hundred seventy and sixty-five hundredths**. Answer: _____



Assessment

Directions: Read each statement below carefully. Choose the letter that corresponds to the best answer. Write your chosen letter on a separate sheet of paper.

1. Which is the correct word form of **32.106**?
 - A. Thirty-two and one hundred six tenths
 - B. Thirty-two and one hundred six hundredths
 - C. Thirty-two and one hundred six thousandths
 - D. Thirty-two and one hundred six ten thousandths
2. A circular pool has a diameter of 3.28 meters. What is **3.28** written in word form?
 - A. Three and twenty-eight tenths
 - B. Three and twenty-eight hundredths
 - C. Three and twenty-eight thousandths
 - D. Three and twenty-eight ten thousandths
3. When **reading** a decimal number, the following are the steps to follow. Which of the following should be the **third** step?
 - A. Say the word **and** for the decimal point.
 - B. Say the whole number.
 - C. Say the place name for the last digit.
 - D. Say the number to the right of the decimal point as though it were a whole number.
4. Which of the following is the way to write in digits **three hundred twenty-six and five thousandths**?
 - A. 326.5
 - B. 326.05
 - C. 326.005
 - D. 326.0005
5. Below are the steps in writing a decimal number in words. Which is the correct order of the steps?
 - A. *Use a decimal point for the word and.*
 - B. *Place zeros on the place values where there are no non-zero digits.*
 - C. *Write the whole number.*
 - D. *Write the decimal part.*
 - A. C-A-D-B
 - B. D-A-C-B
 - C. C-A-B-D
 - D. D-A-B-C
6. The Independence Flagpole or the Philippine National Flagpole is 45.72 meters. What is **45.72** written in word form?
 - A. Forty-five and seventy-two tenths
 - B. Forty-five and seventy-two hundredths
 - C. Forty-five and seventy-two thousandths
 - D. Forty-five and seventy-two ten thousandths

7. The value of Pi (π) is 3.14. Which of the following is the correct word form of **3.14**?
- A. three and fourteen tenths
 - B. three and fourteen hundredths
 - C. three and fourteen thousandths
 - D. three and fourteen ten thousandths
8. Which number is equivalent to **ninety-three ten thousandths**?
- A. 0.93 B. 0.093 C. 0.0093 D. 0.00093
9. Which of the following statements is CORRECT?
- A. When reading a decimal, the place value of the first digit of a decimal names its value.
 - B. A zero before the decimal point means the decimal has a whole number part.
 - C. Knowledge on place value is not important to read a decimal number.
 - D. The decimal point is fixed after the ones place.
10. **Six and eight tenths** can also be written as ____.
- A. 6.8 B. 6.08 C. 6.008 D. 6.0008



Additional Activities

Directions: Inside the long box are numbers 0-9. Form 5 decimal numbers through ten- thousandths place without repeating the numbers. Then, write the decimal numbers in words. An example of a decimal formed from the given set is done for you to serve as your guide.

0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

DECIMAL NUMBERS	WORD FORMS
20.5671	twenty and five thousand six hundred seventy-one ten thousandths
1)	
2)	
3)	
4)	
5)	



Answer Key

What I Know

1. B
2. C
3. C
4. B
5. B
6. C
7. A
8. D
9. A
10. D

What's In

A.

	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths	Hundredths	Thousandths	Ten Thousandths
a) 0.375				0	.	3	7	5	
b) 42.9			4	2	.	9			
c) 0.0168				0	.	0	1	6	8

B.

Digit of the Number	Place Value	Value of the Digit
3	Tenths	0.3
7	Hundredths	0.07
5	Thousandths	0.005
4	Tens	40
2	Ones	2
9	Tenths	0.9
1	Hundredths	0.01
6	Thousandths	0.006
8	Ten Thousandths	0.0008

What's More

Exercise No. 3 (A)

	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths	Hundredths	Thousandths	Ten Thousandths
1)			3	6	.	5	8		
2.)					.	2	0	7	1
3)			9	6	.	5	0	0	3

What's More

Exercise No. 1

1. 12.0367

Step 1:

	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths	Hundredths	Thousandths	Ten Thousandths
12.0367			1	2	.	0	3	6	7

Step 2: Twelve

Step 3: Twelve and

Step 4: Three hundred sixty-seven

Step 5: In 367, the last digit is 7 and its place name is ten thousandths. So, it will be read as Twelve and three hundred sixty-seven ten thousandths

2. 9.704

Step 1

	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths	Hundredths	Thousandths	Ten Thousandths
9.704				9	.	7	0	4	

Step 2: Nine

Step 3: Nine and

Step 4: Seven hundred four

Step 5: In 704, the last digit is 4 and its place name is thousandths. So, it will be read as seven hundred four thousandths

9.704 is read as Nine and seven hundred four thousandths

What's More

Exercise No. 2

1. C
2. E
3. A
4. B
5. F

What's More

Exercise No. 3 (B)

1. Eight and thirty-five ten thousandths
2. Twelve and fifty-nine thousandths
3. Twenty-four and five thousand eight ten thousandths
4. Eighty-four and seven hundred twelve ten thousandths
5. One hundred seven and three hundred ninety-two thousandths

LESSON 2

What's In

- Five and eighteen hundredths
- Three hundred ninety-six thousandths
- Nine and two hundred five ten thousandths
- Seven and three tenths
- Two and eight thousandths

What's More

Exercise No. 1

1. two and sixty-five thousandths (given)

2. Four Hundredths

	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths	Hundredths	Thousandths	Ten Thousandths
Step 1				0					

	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths	Hundredths	Thousandths	Ten Thousandths

	Thousands	Hundreds	Tens	Ones	Decimal	Tenths	Hundredths	Thousandths	Ten Thousandths
Step 3				0	.		4		

	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths	Hundredths	Thousandths	Ten Thousandths
Step 4				0	.	0	4		

Therefore, we write four hundredths as 0.04.

3. five and two thousandths

	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths	Hundredths	Thousandths	Ten Thousandths
Step 1				5					

	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths	Hundredths	Thousandths	Ten Thousandths
Step 2				5	.				

	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths	Hundredths	Thousandths	Ten Thousandths
Step 3				5	.			2	

	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths	Hundredths	Thousandths	Ten Thousandths
Step 4				5	.	0	0	2	

Therefore, we write five and two thousandths as 5.002

4. eight hundred and thirty-one ten thousandths

	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths	Hundredths	Thousandths	Ten Thousandths
Step 1		8	0	0					
Step 2		8	0	0	.				
Step 3		8	0	0	.			3	1
Step 4		8	0	0	.	0	0	3	1

Therefore, we write eight hundred and thirty-one ten thousandths as 800 0031

5. Twelve and twelve thousandths

	Thousands	Hundreds	Tens	Ones	Decimal Point	Tenths	Hundredths	Thousandths	Ten Thousandths
Step 1			1	2					
Step 2			1	2	.				
Step 3			1	2	.		1	2	
Step 4			1	2	.	0	1	2	

Therefore, we write twelve and twelve thousandths as 12.012.

LESSON 2

What's More

Exercise No. 2

- 34.0351
- 8.75
- 0.797
- 1.7089
- 562.4

What I Have Learned

- What are the steps in reading decimal numbers through ten thousandths?

Step 1: Write the digits in the appropriate boxes of the place value chart.

Step 2: Read the number to the left of the decimal point as a whole number.

Step 3: Read the decimal point as "and".

Step 4: Read the number to the right of the decimal point though it were a whole number.

Step 5: Say the place value of the last digit.

- What are the steps in reading decimal numbers through ten thousandths?

Step 1: Write the whole number.

Step 2: Write a decimal point for the word "and".

Step 3: Think of how many places you need after the decimal point.

Step 4: Write zeros for the place values without the numbers.

- What other learning/s have you acquired?

Note: Answers will vary. So the teacher will be the one to check if the learner's answer is correct.

What I Can Do

A.

- Two and fifteen thousandths
- Thirty-seven and two tenths
- Sixty-five and two hundred sixty-nine thousandths
- One and five tenths
- One and seventy-five thousandths

B.

- 45.0054
- 1.012
- 25.0075
- 443.8
- 970.65

ASSESSMENT

- | | |
|------|-------|
| 1. C | 6. B |
| 2. B | 7. B |
| 3. D | 8. C |
| 4. C | 9. D |
| 5. A | 10. A |

Additional Activities

Note: Answers will vary.

So, the teacher will be the one to check if the learner's answer is correct.

References

- Bangko Sentral ng Pilipinas. 2020. "Bangko Sentral Ng Pilipinas - Statistics". *Bsp.Gov.Ph*. http://www.bsp.gov.ph/statistics/statistics_exchrte.asp.
- Bureau of Secondary Education, DECS. 1989. *Mathematics I: First Year High School Textbook*. 1st ed. Quezon City: Department of Education, Culture and Sports.
- Calculators, Paper, and Paper Thickness. 2020. "Case Paper: Paper Thickness (Caliper) Tables | Case Paper". *Casepaper.Com*. <http://www.casepaper.com/resources/paper-price-calculators/paper-thickness/>
- Dela Pena, Carmen R. 1993. *Exploring Mathematics*. Quezon City: Phoenix Publishing House, Inc.
- Google, Inc. 2020. *Map Data of Brgy. Malajog To Calbayog City Hall*. Image. <https://www.google.com.ph/maps/dir/Barangay+Malajog,+Calbayog+City,+Samar/Calbayog+City+Hall,+Calbayog+City,+Samar/@12.087982,124.5011276,13z/data=!3m1!4b1!4m13!4m12!1m5!1m1!1s0x33a7619660aa96fb:0x2509ed0561d7cc10!2m2!1d124.4780429!2d12.1069903!1m5!1m1!1s0x3309d984f0d5274b:0xf3312ccde02761d0!2m2!1d124.5946668!2d12.0669786?hl=en>.
- International Paper. 2020. "Paper Caliper Chart". *Internationalpaper.Com*. <http://www.internationalpaper.com/tools/calculators/paper-caliper-chart>.
- Lumbre, Angelina P., and Alvin C. Ursua. 2016. *21st Century Mathematics 5 Textbook*. Quezon City: Vibal Group, Inc.
- Northcutt, Ellen (Ed.). 2000. *Pre-GED Mathematics*. USA: Steck-Vaughn Company
- The Authors of Encyclopedia Britannica. 2020. "Coronavirus | Definition, Features, & Examples". *Encyclopedia Britannica*. <https://www.britannica.com/science/coronavirus-virus-group>.

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