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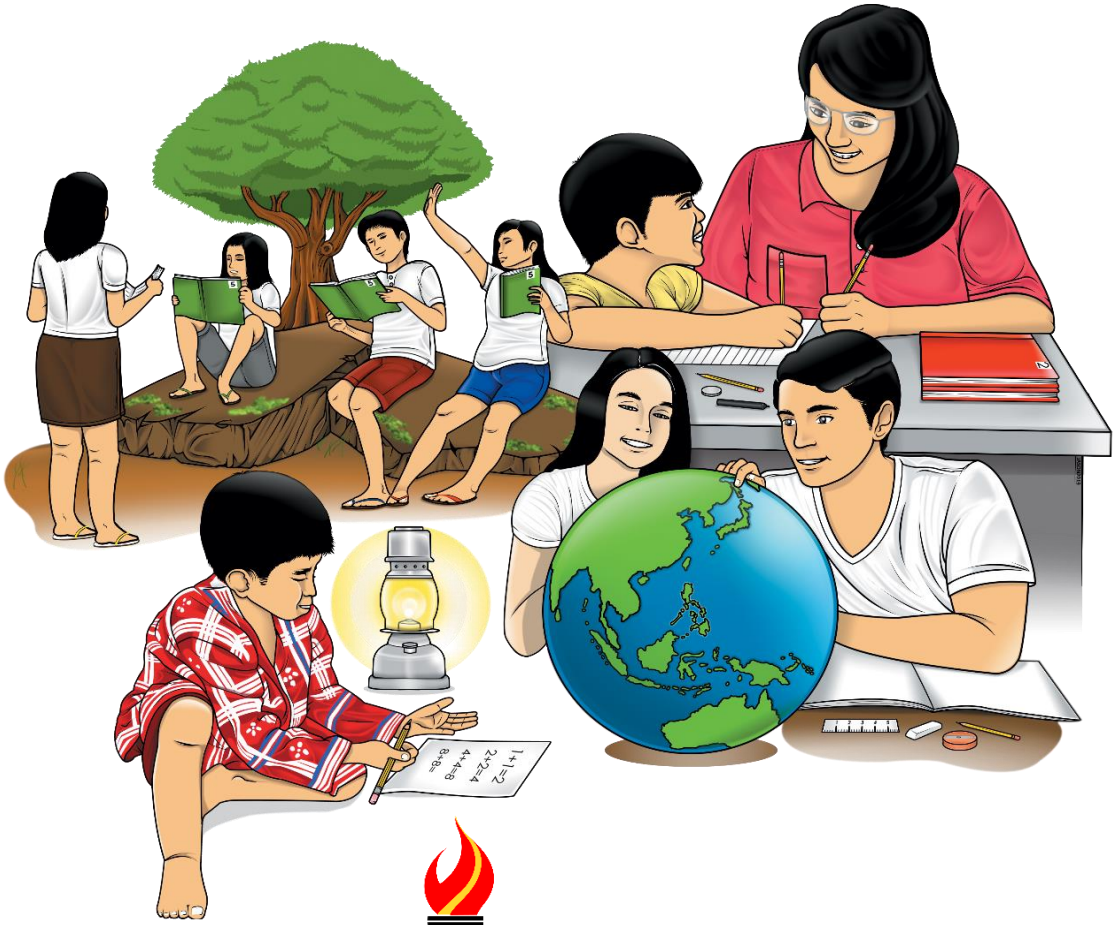
Mathematics
Quarter 2 – Module 9: Reading and Writing Decimal Numbers



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Mathematics
Quarter 2 – Module 9: Reading and Writing Decimal Numbers

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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.

Thank you.

What I Need to Know

Reading and writing decimals is almost the same with reading and writing whole numbers. You have to consider the place value of every digit in reading and writing numbers.

In this lesson, you will learn the proper way of reading and writing decimal numbers. You should also be aware of the correct spelling of each word that you will be writing.

At the end of the lesson, you should be able to:

- give the place value and the value of a digit of a given decimal number through hundredths;
- read decimal numbers through hundredths; and
- write decimal numbers through hundredths.

Lesson I: Place Value of Decimal Numbers

What I Know

A. Give the place value of the underlined digit.

1.	83.6<u>7</u>	_____	4.	1.<u>8</u>6	_____
2.	75.<u>0</u>9	_____	5.	65.4<u>3</u>	_____
3.	0.<u>8</u>0	_____			

B. Give the value of the underlined number. Match column A with column B. Write the letter of the correct answer before the number.

Column A	Column B
_____ 6. 9.<u>6</u>	a. 0.1
_____ 7. 1.7<u>5</u>0	b. 0.05
_____ 8. 0.<u>1</u>2	c. 0.3
_____ 9. 8.<u>3</u>9	d. 0.01
_____ 10. 2.6<u>1</u>	e. 0.6

Are you done answering? If yes, time to check.
Please go to page 12 for the *Answer Key*.

What's In

Let's have first a review on giving the place value and the value of a given whole number.

For us to be able to read numbers correctly, we have to understand the meaning of place value. This chart shows the value of each digit of a number.

Thousands Period			Ones Period		
Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
	5	2	3	1	4

- The digit 4 is in the ones place. Its value is 4.
- The digit 1 is in the tens place. Its value is 10.
- The digit 3 is in the hundreds place. Its value is 300.
- The digit 2 is in the thousands place. Its value is 2000.
- The digit 5 is in the ten thousands place. Its value is 50000.

What's New

Marc is having a training for the swimming competition in their school in preparation for the Bicol Meet next year. He swam 50 – meter freestyle for 58.21 seconds.

What is the given decimal number above?

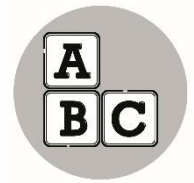
Marc swam for 58.21 seconds.

What is It

- Let us write them down in the given place value chart below.
- This is how we place the number in the place value chart. We extend the number at the right side of the decimal point.

Number	Tens	Ones	Decimal Point	Tenths	Hundredths
58.21	5	8	•	2	1

- At the right of the decimal point, we see the tenths and hundredths place value.
- Let's try to identify one by one the place value and the value of each digit of the given number.
- In 58.21:
  - ❖ The digit 5 is in the tens place. Its value is 50.
  - ❖ The digit 8 is in the ones place. Its value is 8.
  - ❖ The digit 2 is in the tenths place. Its value is 0.2
  - ❖ The digit 1 is in the hundredths place. Its value is 0.01.



What's More

ACTIVITY 1. Give the place value and value of the underlined digit of a given decimal number.

Decimal Number	Place value	Value
1. 36.<u>7</u>5		
2. 61.<u>5</u>9		
3. 29.3<u>1</u>		
4. 47.9<u>8</u>		
5. 20.4<u>2</u>		

Are you done answering? If yes, time to check.
Please go to page 12 for the *Answer Key*.

What I Have Learned

How could we give the place value of a digit?

- Just look into the placement of the digit if it is in tens, ones, tenths or hundredths.

What I Can Do

Put a check (√) on the blank before the number if the statement is correct and cross (**x**) if it is wrong.

_____1. The value of 2 in 8.26 is 0.02.

_____2. The digit 4 in 9.47 is in the tenths place value.

_____3. The value of 8 in 5.18 is 0.08.

_____4. The digit 5 in 30.45 is in the hundredths place value.

_____5. The digit 9 in 102.97 is in the tenths place value.

Are you done answering? If yes, time to check.
Please go to page 12 for the *Answer Key*.

Assessment

A. Give the place value of the underlined digit.

1. 32.<u>5</u>6 _____
2. 46.8<u>7</u> _____
3. 98.1<u>0</u> _____
4. 964.1<u>0</u> _____
5. 87.<u>4</u>2 _____

A. Write the value of the underlined digit.

6. 2.<u>3</u>1 _____

7. 6.7<u>2</u> _____
8. 9.<u>4</u>21 _____
9. 3.2<u>5</u> _____
10. 19.8<u>6</u> _____

Are you done answering? If yes, time to check.
Please go to page 12 for the *Answer Key*.

Additional Activities

Give two decimal numbers where one has 6 in the tenths place and the other has 6 in the hundredths place.

1. _____ 2. _____

Are you done answering? If yes, time to check.
Please go to page 12 for the *Answer Key*.

Lesson II: Reading and Writing Decimal Number

What I Know

ACTIVITY A. Check the box that corresponds to the correct way of reading the given decimal numbers.

1. **3.5**	3 and 5 tens	Three and five tenths
2. **2.08**	2 and 8 hundredths	Two and eight tenths
3. **6.12**	6 and 12 hundredths	Six and twelve tenths
4. **1.4**	1 and 4 hundredths	One and four tenths
5. **9.3**	9 and 3 tenths	Nine and three hundredths

ACTIVITY B: Write the following decimal numbers in words.

6. 34.06 _____
7. 2.07 _____
8. 14.89 _____
9. 64. 51 _____
10. 0.25 _____

Are you done answering? If yes, time to check.
Please go to page 12 for the *Answer Key*.

What's In

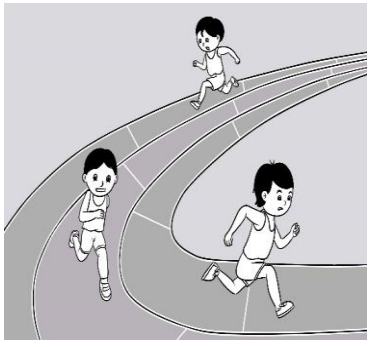
For us to be able to read numbers correctly, we have to understand the meaning of place value. This chart shows the value of each digit of a number.

Number	Tens	Ones	Decimal Point	Tenths	Hundredths
36.48	3	6	•	4	8
89.72	8	9	•	7	2
75.19	7	5	•	1	9

- At the right of the decimal point, we see the tenths and hundredths place value.
- Let's try to identify one by one the place value and the value each digit of a given number.
- In 34.08:
  - The digit 3 is in the tens place. Its value is 30.
  - The digit 6 is in the ones place. Its value is 6.
  - The digit 4 is in the tenths place. Its value is 0.4
  - The digit 8 is in the hundredths place. Its value is 0.08.

We use decimal numbers to give a more accurate measurement of time.

What's New



Ronny, Marco and Paolo joined in the 200-meter dash during the City Meet held last September. Marco won first with a record of 46.27 seconds. Second was Paolo who finished it in 49.5 seconds and Ronny ranked last with 52.36 seconds.

What do we call the given numbers above?

What is It

Let us write them down in the given place value chart below.

Number	Tens	Ones	Decimal Point	Tenths	Hundredths
46.27	4	6	•	2	7
49.5	4	9	•	5	
52.36	5	2	•	3	6

The given numbers above are called decimal numbers.
But how can you read and write decimal numbers?

When reading decimal numbers, we read the whole number part as it is, use "*and*" to represent the decimal point and continue reading the numbers after the decimal point mentioning the place value of the last digit.

Let us read the following:

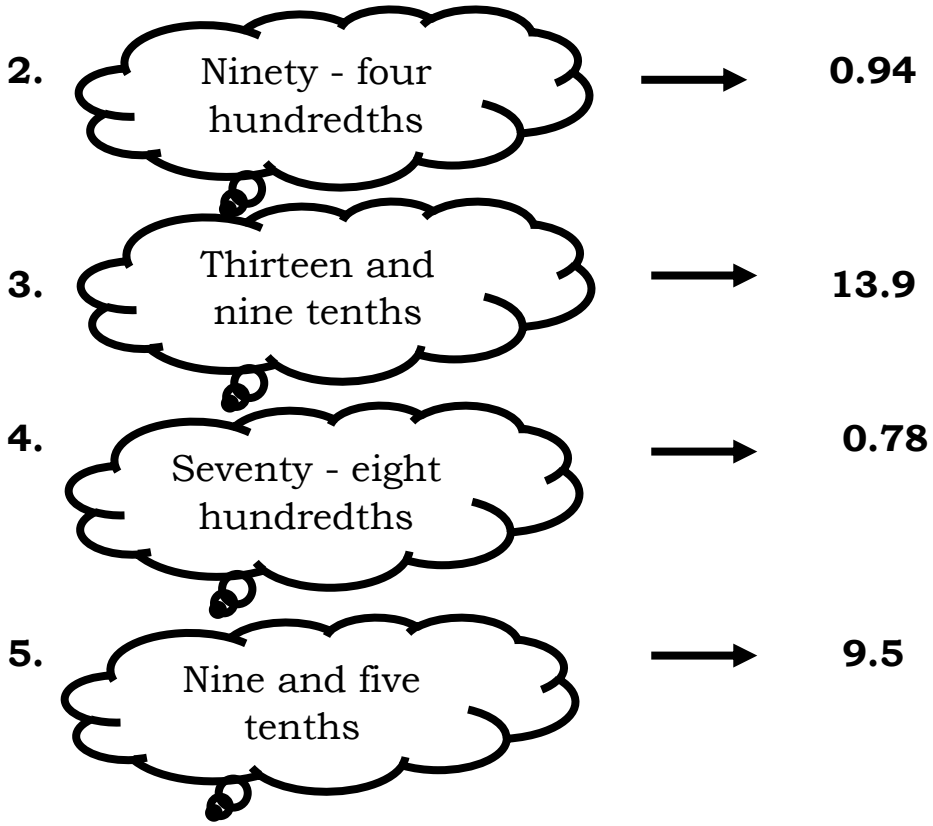
46.27 is read as
→ **forty-six and twenty-seven hundredths**

49.5 is read as
→ **forty-nine and five tenths**

52.36
fifty-two and thirty-six hundredths

Can you now read decimal numbers? By this time, we will write the following number words in numeral form.

1. One and sixty – five hundredths → **1.65**



What's More

ACTIVITY 1. Write the decimal numbers correctly.

1. five and seven hundredths
   _____
2. seventy-one and three tenths
   _____
3. ninety-eight and fifty-six hundredths
   _____
4. sixty and one tenths
   _____
5. twelve hundredths
   _____

Are you done answering? If yes, time to check.
Please go to page 13 for the *Answer Key*.

What I Have Learned

What should you remember in reading and writing decimal numbers?

- Read the number after the decimal point as a whole number and then name the place position value of the last digit.
- If a decimal number is in hundredths, there are two decimal places to the right of the decimal point.

What I Can Do

Put a check (√) on the blank before the number if the statement is correct and cross (x) if it is wrong.

_____1. In number words, 48.33 can be written as four and eighty–three hundredths.
_____2. In number words, 3.97 can be written as 3 and ninety – seven hundredths.
_____3. In number words, 68. 31 can be written as sixty-eight and thirty-one tenths.
_____4. 9.4 can be written as nine and four tenths.
_____5. 12.15 can be written as fifteen tenths.

Are you done answering? If yes, time to check.
Please go to page 13 for the *Answer Key*.

Assessment

A. Write the letter of the correct decimal number.

1. Five and sixty-seven hundredths

a. 5.67 b. 0.67 c. 5.06

2. Eighty and nine tenths
   a. 8.09 b. 8.009 c. 80.9
3. Six and thirty-one hundredths
   a. 6.031 b. 6.31 c. 6.03
4. Eleven and twelve hundredths
   a. 11.12 b. 11.10 c. 11.21
5. Ninety-eight hundredths
   a. 9.8 b. 0.98 c. 0.098

B. Write the following decimal numbers in words.

6. 5.09 _____
7. 12.7 _____
8. 0.34 _____
9. 45.87 _____
10. 21.21 _____

Are you done answering? If yes, time to check.
Please go to page 13 for the *Answer Key*.

Additional Activities

Cross out what does not belong in each row.

1.	3.5	3 and 5 tens	Three and five
2.	2.08	2 and 8	Two and eight
3.	6.12	Six and twelve hundredths	Six and two hundredths

Are you done answering? If yes, time to check.
Please go to page 13 for the *Answer Key*.

Answer Key

Lesson 1: Place value of Decimal Numbers

What I know

A. 1. hundredths 4. tenths
2. tenths 5. hundredths
3. Tenths

B. 6. e 7. b 8. a 9. c 10. d

What's More

Decimal Number	Place value	Value
1. $36.\overline{75}$	tenths	0.7
2. $61.\overline{59}$	tenths	0.5
3. $29.3\underline{1}$	hundredths	0.01
4. $47.9\underline{8}$	hundredths	0.08
5. $20.4\underline{2}$	hundredths	0.02

What I can do

1. X
2. /
3. /
4. /
5. /

Assessment

A. 1. tenths 4. hundredths
2. hundredths 5. tenths
3. hundredths

B.

1. 0.03 2. 0.02 3. 0.4 4. 0.05 5. 0.06

Lesson 2: Reading and Writing Decimal Numbers

What I know

A. 1. Three and five tenths
2. 2 and 8 hundredths
3. 6 and 12 hundredths
4. One and four tenths
5. 4 and 3 tenths

B. 6. Thirty four and six hundredths
7. two and seven hundredths
8. fourteen and eighty nine hundredths
9. sixty four and fifty one hundredths
10. twenty five hundredths

What's More

1. 5.07 2. 71.3 3. 98.56 4. 60.1 5. 0.12

What I Can Do

1. X 2. / 3. X 4. / 5. X

Assessment

1. a 2. c 3. b 4. a 5. b

6. five and nine hundredths

7. twelve and seven tenths

8. thirty four hundredths

9. forty five and eighty seven hundredths

10. twenty one and twenty one hundredths

References

Tabilang, Alma R. et. Al, 2015 Mathematics 4 Learner's Material pp. 143 – 146

Guadarrama, Maria Teresita A.et. Al, 2015 Number Smart Worktext in Mathematics pp. 307 - 311

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