

**M
A
T
H
E
M
A
T
I
C
S

4**

Modified In-School Off-School Approach Modules (MISOSA)
Distance Education for Elementary Schools
SELF-INSTRUCTIONAL MATERIALS



**PLACE VALUE OF
DECIMAL NUMBERS**



Department of Education
BUREAU OF ELEMENTARY EDUCATION
2nd Floor Bonifacio Building
DepEd Complex, Meralco Avenue
Pasig City

Revised 2010

by the Learning Resource Management and Development System (LRMDS),
DepEd - Division of Negros Occidental
under the Strengthening the Implementation of Basic Education
in Selected Provinces in the Visayas (STRIVE).

Section 9 of Presidential Decree No. 49 provides:

“No copyright shall subsist in any work of the Government of the Republic of the Philippines. However, prior approval of the government agency or office wherein the work is created shall be necessary for exploitation of such work for profit.”

This material was originally produced by the Bureau of Elementary Education of the Department of Education, Republic of the Philippines.

This edition has been revised with permission for online distribution through the Learning Resource Management Development System (LRMDS) Portal (<http://lrmds.deped.gov.ph/>) under Project STRIVE for BESRA, a project supported by AusAID.



PLACE VALUE OF DECIMAL NUMBERS

Objective: Name the place value of each digit of a given decimal number.



A. Give the place value of the underlined digits of the whole number.

_____ 1) 24 067

_____ 2) 2 649

_____ 3) 416 290

_____ 4) 361 243 101

_____ 5) 358

_____ 6) 2 222

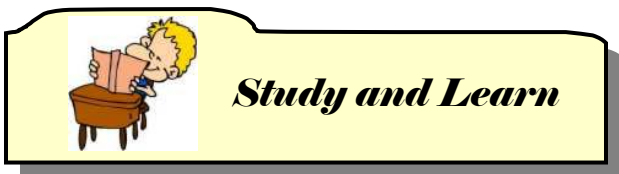
_____ 7) 37 498 116

_____ 8) 61 263 413 201

_____ 9) 269 216 3000

_____ 10) 361 247

Check your work using the key to correction. If you scored 4 to 5, you may now move on to the next lesson. If you scored 3 or below, review the Lessons on how to find the perimeter of a plane figure.



Marc has 10-centavo coins in his pocket. The coins total to ₱3.20. How many 10-centavo coins does Marc have?

How do you get the answer to the problem above?

1. Use play or real money in finding how many 10-centavo coins are there in ₱1.00, ₱5.00 and ₱0.50?
2. With the findings, discover the pattern and find out if the answer of the problem is correct.





EXAMINE CLOSELY THE PLACE VALUE CHART BELOW:

Thousands	Hundreds	Tens	Units	Decimal Points	Tenths	Hundredths	Thousandths	Ten Thousandths	Hundred Thousandths
			3	.	2	0			

3. Bear in mind that the place holders of whole numbers are before the decimal point while the digit are after the decimal point.

The following are some examples:

Hundreds	Tens	Units	Decimal Points	Tenths	Hundredths	Thousandths	Ten Thousandths	Hundred Thousandths
	9	3	.	9				
	2	0	.	1	4			
	4	9	.	3	6	8		
		0	.	0	0	5	3	
4	1	2	.	2	4	6	0	1
	5	2	.	1	2	3		

Decimal Numbers

- a) 93.9
- b) 20.14
- c) 49.368
- d) 0.0053
- e) 412.24601
- f) 52.123





4. From the value chart above let us give the value of each digit
For example letter f.

DIGIT	MEANS	VALUE
5	=	50
2	=	2
1	=	0.1
2	=	0.02
3	=	0.003



- A. Draw a place value chart on your paper and write the following decimal numbers.

	Hu ndr ed s	T e n s	U n i t s	Decimal point	Tent hs	Hun dred hs	Thou sand ths	Ten thous ndths	100 thousa ndths
1									
2									
3									
4									
5									

Decimal
Numbers

- a) 10.02
- b) 246.24156
- c) 2.241
- d) 36.0045
- e) 101.298802





B. Read the problem and answer the questions that follow.

Estela earned ₱92.75 from the sale of her banana fritters. She gave this amount to her mother for daily expenses. What kind of a girl is Estela?

helpful

1. What is the place value of 9?
2. What is the place value of 2?
3. What is the place value of 7?
4. What is the place value of 5?
5. What is the value of 7?
6. What is the value of 9?



Wrap Up

Decimal numbers, just like the whole numbers have place values. Likewise the value of each digit depends on its place or position in the number. The decimal point is the boundary between whole numbers parts and the decimal part of the whole numbers.



On Your Own

A. Identify the place value of the underlined digit in each given numeral.

____ 1) 21.614

____ 2) 37.59

____ 3) 113.015

____ 4) 428.095

____ 5) 78.095





B. In the numeral 389.756, write the place value of the following digits.

____ 6) 9
____ 7) 7
____ 8) 6

____ 9) 3
____ 10) 5

C. Copy the words and supply the missing word and corresponding number.

Ex.: 861.85 The 5 in the hundredths place means $\frac{5}{100}$

11. 31.52 The 2 in the _____ place means _____
12. 18.653 The 6 in the _____ place means _____
13. 6.54893 The 9 in the _____ place means _____
14. 47.0543 The 4 in the _____ place means _____
15. 174.326 The 7 in the _____ place means _____

Check your answer with the answer key. If you get....

13-15 - *Excellent! You may now proceed to the next lesson.*

9-12 - *You need to review the processes you missed.*

0-8 - *You need to repeat the whole process.
Ask your teacher or elder to help you.*

