MATHEMATICS 4

PLACE VALUE OF DECIMAL NUMBERS

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in Selected Provinces in the Visayas (STRIVE).

PLACE VALUE OF DECIMAL NUMBERS

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

Review

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

_____ 1) 2<u>4</u> 067

_____ 2) 2 <u>6</u>49

_____ 3) 4<u>1</u>6 290

_____ 4) 3<u>6</u>1 243 101

_____ 5) <u>3</u>58

_____ 6) 2 22<u>2</u>

_____ 7) 3<u>7</u> 498 116

_____ 8) 6<u>1</u> 263 413 201

_____ 9) 26<u>9</u> 216 3000

_____ 10) 3<u>6</u>1 247

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.

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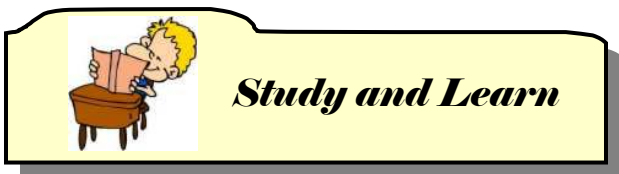
> Marc has 10-centavo coins in his pocket. The coins total to ₱3.20. How many 10-centavo coins does Marc have?

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

Try These

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

	Hundreds	Tens	Units	Decimal point	Tenths	Hundredths	Thousandths	Ten thousandths	100 thousandths
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) 21.6̲14   _____ 4) 428.09̲5
_____ 2) 3̲7.59   _____ 5) 78.09̲5
_____ 3) 113.015

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

_____ 6) 9   _____ 9)   3
_____ 7) 7   _____ 10) 5
_____ 8) 6

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

Ex.: 861.85 The 5 in the <u>hundredths</u> place means 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.*

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