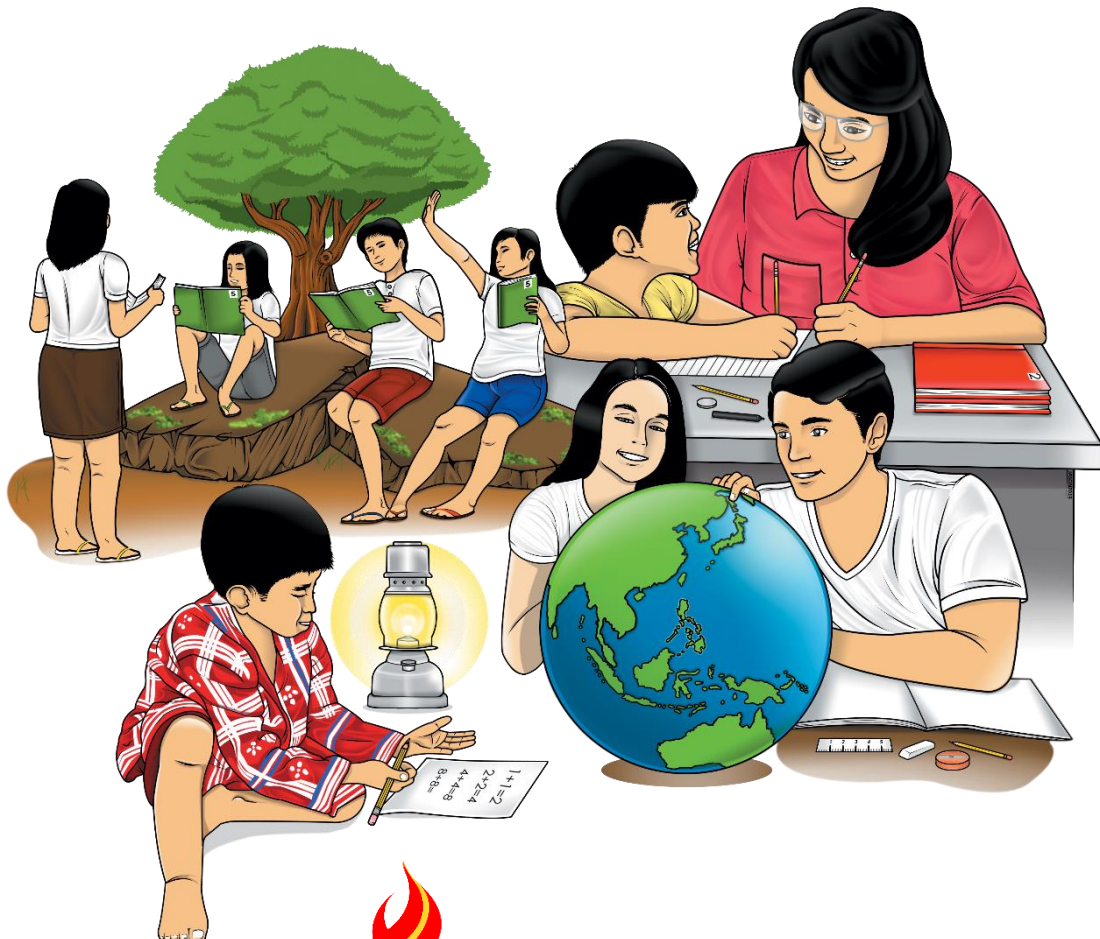


Mathematics

Quarter 1 – Module 2: Giving the Place Value and Value of a Digit



Mathematics – Grade 3
Alternative Delivery Mode
Quarter 1 – Module 2: Giving the Place Value and Value of a Digit
First Edition, 2020

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Mathematics

Quarter 1 – Module 2:
Giving the Place Value
and Value of a Digit

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

This module was designed and written with you in mind. It is here to help you identify the place value and value of a digit in a number. The scope of this module permits it to be used in many different learning situations. The language used recognizes your diverse vocabulary backgrounds. The lessons are arranged to follow the standard sequence of the course but the order in which you read them can be changed to correspond with the Mathematics Grade 3 learning materials you are using.

After going through this module, you are expected to:

1. write the place value and value of each digit in 4 – to a 5-digit number.

Enjoy your journey. Good luck!



What I Know

Complete the table. Write the place value and the value of each number.

A. 6 587

Digit	Place Value	Value
6		
5		
8		
7		

B. 12 483

Digit	Place Value	Value
3		
8		
4		
2		
1		

Lesson

Gives the Place Value and Value of a Digit in 4 – 5 Digit Numbers

Look at the picture below, search for the five numbers on the face of the child.



Form the smallest and biggest numbers using the five numbers you can find on the face of the child.

1. smallest five-digit number _____

2. biggest five-digit number _____



What's In

A. Using the number discs presented, you identify the number being given. Choose the letter of the correct answer. Write the letter of the correct answer in the blank provided.

_____ 1.

(10 000)	(1 000)	(100)	(100)	(10)	(1)	(1)
	(1 000)	(100)	(100)	(10)	(1)	(1)
(10 000)		(100)	(100)	(10)	(1)	(1)
	(1 000)	(100)	(100)	(10)	(1)	
				(10)	(1)	

A. 25 688

B. 24 458

C. 23 658

D. 2 366

_____ 2.

10 000	1 000	100	10	1
10 000	1 000	100	10	1
10 000	1 000	100	10	1
10 000	1 000		10	1
	1 000		10	1
			10	

A. 54 376

B. 45 376

C. 45 276

D. 44 376

B. Write the numerals being presented in each item below.

a. 1 thousands, 6 hundreds, 5 tens, 3 ones = _____

b. 2 thousands, 7 hundreds, 2 tens, 7 ones = _____

c. 3 thousands, 3 hundreds, 8 tens, 1 ones = _____

d. 4 thousands, 5 hundreds, 7 tens, 4 ones = _____

e. 1 thousands, 2 hundreds, 4 tens, 8 ones = _____



What's New



During the Pujada Bay Festival, Jose joined in the banca race as a representative of their barangay. He finished 1st place after the race and got a cash prize of Php 32 495. The cash prize is presented to you in a place value chart.

Place Value Chart

Ten Thousands	Thousands	Hundreds	Tens	Ones
3	2	4	9	5

In 32 495:

The digit 3 is in the ten thousands place. Its value is 30 000.

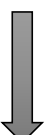
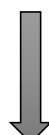
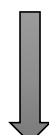
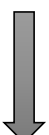
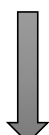
The digit 2 is in the thousands place. Its value is 2 000.

The digit 4 is in the hundreds place. Its value is 400.

The digit 9 is in the tens place. Its value is 90.

The digit 5 is in the ones place. Its value is 5.

In expanded form:

	3 x 10 000	2 x 1 000	4 x 100	9 x 10	5 x 1
Value:					
	30 000	2 000	400	90	5

Activity 1

Write the place value and value of the digits in each number.

A. 3 745

Digit	Place Value	Value
3		
7		
4		
5		

B. 78 321

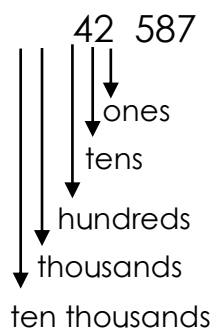
Digit	Place Value	Value
7		
8		
3		
2		
1		



What is It

In identifying the place value of a 4- to 5-digit number, you need to memorize the order of place value of the digits from right to left, namely: ones, tens, hundreds, thousands, and ten thousands. The place value can be extended to the left depending on the number of digits.

Example:



In the example above, we can say that the place value of the following digits are as follows:

- 7 - ones,
- 8 - tens,
- 5 - hundreds,
- 2 – thousands, and
- 4 - ten thousands.

To identify the value of the digits in a number, you need to multiply the digit to its corresponding place value. Below is an example of finding the value of the digits using the 5-digit number, given in the previous example.

<u>Numeral</u>	<u>Digit</u>	<u>Place Value</u>	<u>Value</u>
42 587	7	ones	$7 \times 1 = 7$
	8	tens	$8 \times 10 = 80$
	5	hundreds	$5 \times 100 = 500$
	2	thousands	$2 \times 1\,000 = 2\,000$
	4	ten thousands	$4 \times 10\,000 = 40\,000$

Therefore, the value of the digits are as follows:

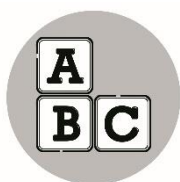
$7 \rightarrow 7$
 $8 \rightarrow 80$
 $5 \rightarrow 500$
 $2 \rightarrow 2\,000$
 $4 \rightarrow 40\,000$

Here is another example using a 4-digit number.

<u>Numeral</u>	<u>Digit</u>	<u>Place Value</u>	<u>Value</u>
8 024	4	ones	$4 \times 1 = 4$
	2	tens	$2 \times 10 = 20$
	0	hundreds	$0 \times 100 = 0$
	8	thousands	$8 \times 1\,000 = 8\,000$

Therefore, the value of the digits are as follows:

$4 \rightarrow 4$
 $2 \rightarrow 20$
 $0 \rightarrow 0$
 $8 \rightarrow 8\,000$



What's More

Activity 2

Write the place value that digit 6 holds.

1. 47 546 _____
2. 65 408 _____
3. 76 325 _____
4. 89 641 _____
5. 90 768 _____

Activity 3

Write the place value and the value of the underlined digit.

- | | Place Value | Value |
|-------------------|-------------|-------|
| 1. 67 <u>4</u> 35 | _____ | _____ |
| 2. <u>8</u> 9 710 | _____ | _____ |
| 3. 56 <u>4</u> 31 | _____ | _____ |
| 4. 9 <u>0</u> 164 | _____ | _____ |
| 5. 23 79 <u>3</u> | _____ | _____ |



What I Have Learned

How to give the place value and value of a 4-and 5-digit number?

- In identifying the place value of a 4- to 5-digit number, you need to memorize the order of place value of the digits from right to left, namely: ones, tens, hundreds, thousands, and ten thousands.
- To identify the value of the digits in a number, you need to multiply the digit to its corresponding place value; 1 (ones), 10 (tens), 100 (hundreds), 1 000 (thousands) and 10 000 (ten thousands).



What I Can Do

Activity 4

You use the digits **3, 4, 5, 6**, and **7** only once for problems 1 to 4.

1. Write the greatest 5-digit number possible with 5 in the thousands place.
2. Write the least 4-digit number possible with 7 in the hundreds place.
3. Write the greatest 5-digit number possible with 4 in the ten thousands place.
4. Write the least 5-digit number possible with 3 in the tens place.



Assessment

Complete the table. Write the place value and the value of the digit in each number.

A. 82 659

Digit	Place Value	Value
9		
5		
6		
2		
8		

B. 4 579

Digit	Place Value	Value
4		
5		
7		
9		



Additional Activities

Activity 5

Place Value Detective. Do as I say.



1. Circle the digit in the tens place. 2 345
2. Circle the digit in the ten thousands place.
45 678
3. Create a number with 1 in the thousands place. _____
4. Create a number with 7 in the ones place and 1 in the hundreds place. _____



Answer Key

What I Know			What's In			Activity 1					
A.			A.			Digit			Place Value		
6			thousands			6 000			thousands		
5			hundreds			500			hundreds		
8			tens			80			tens		
1			ten			10			ten		
Digit			Place Value			Value			Value		
B.			B.			Digit			Place Value		
a. 1 653			b. 2 727			c. 3 381			d. 4 574		
e. 1 248			1. c			2. d			B.		
7			ones			7			ten thousands		
8			tens			80			thousands		
5			hundreds			500			hundreds		
6			thousands			6 000			thousands		
Value			Value			Value			Value		
Value			Value			Value			Value		
Activity 2			Activity 3			Activity 4					
1. ones			Place Value			1. 75 643			2. 3 745		
2. ten thousands			1. tens			2. 80 000			3. 47 653		
3. thousands			2. ten thousands			3. 400			4. 45 637		
4. hundreds			3. hundreds			4. 0			5. 3		
5. tens			4. thousands			5. 3					
Assessment			Assessment			Assessment			Additional Activities		
A.			B.			Activity 5					
Digit			Digit			1. encircle 4			2. encircle 4		
Place Value			Place Value			3. (many possible answer)			4. (many possible answer)		
Value			Value			5. ten thousands					
8			9			9					
2			7			70					
6			5			500					
5			4			4 000					
9			thousands			4 000					
ones			tens			tens					
Value			Value			Value					
thousands			ones			ones					
ten			tens			tens					
hundreds			hundreds			hundreds					
2 000			70			70					
80			9			9					
Value			Value			Value					

References

Splashlearn. n.d. "About the Place Value." Accessed February, 2020.<https://www.splashlearn.com/math-vocabulary/place-value/place-value>.

Slideshare. n.d. "About the Place Value." Accessed February, 2020.https://google.com/url?sa=t&source=web&rct=j&url=https://www.slideshare.net/mobile/razonlance/grade-3-math-teachersguide&ved=2ahUKEwiXuoOOjM_pahXYFogKHxW7BlsQFjAAegQIBBAB&usg=AOvVaw1jIjX9CMIW-1eaEPDQrkEG.

Department of Education. 2010. *Lesson Guide in Mathematics Grade 3*. Bureau of Elementary Education in coordination with Ateneo De Manila University. 15–18.

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