4

# Mathematics 4

## Microlearning Module

### QUARTER 1 – Module 9

***Determining the place value of a digit in a 6-digit number, the value of a digit, and the digit of number, given its place value***


Microlearning Module

REGION XII - DIVISION OF SULTAN KUDARAT

**Mathematics 4**
**Microlearning Module (MLM)**
**Quarter 1 – Module 9: Determining the place value of a digit in a 6-digit number, the value of a digit, and the digit of a number, given its place value**
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**MICROLEARNING MODULE**

Name: _____Grade & Sec: _____ Score: _____
Subject: Mathematics Quarter: 1 MLM No: 9
Teacher: _____
Competency: Determine the place value of a digit in a 6-digit number, the value of a digit, and the digit of a number, given its place value

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## A. Look Back!

Read each number and connect it to its correct number words. Write the letter of your answer in the space provided.

| | |
|---|---|
| ___1. 25 749 | A. Five Hundred forty-eight thousand, two hundred sixty-four |
| ___2. 136 920 | B. Four Hundred eighty-two thousand, one hundred five |
| ___3. 482 105 | C. Twenty-five thousand, seven hundred forty-nine |
| ___4. 967 481 | D. One Hundred thirty-six thousand, nine hundred twenty |
| ___5. 548 264 | E. Nine Hundred sixty-seven thousand, four hundred eighty-one |

## B. What's New?

In Math, every digit in a number has a place value and a value. Place value can be defined as the value represented by a digit in a number based on its position in the number. Place Value is important because it helps you understand the meaning of a number and the order of numbers as well. It also helps in reading and writing large numbers.

Answer these questions.

1. Why is learning the place value of a digit important?

2. Do you think mastery of giving the value of a digit is important in your number skills?

3. How do you relate the importance of this skill to your studies?

## C. What is it?

There are 6 place-value names in a six-digit number. These are Ones, Tens, Hundreds, Thousands, Ten Thousands and Hundred Thousands.

Here's an example:

Let us identify the place value of number 654 321. It is easy to identify the place value using a place value chart.

| **PLACE VALUE CHART OF WHOLE NUMBERS** | | | | | |
|---|---|---|---|---|---|
| **THOUSANDS** | | | **UNITS** | | |
| Hundred Thousands | Ten Thousands | Thousands | Hundreds | Tens | Ones |
| **6** | **5** | **4** | **3** | **2** | **1** |

In 654 321,

6 is in the Hundred Thousands place,

5 is in the Ten Thousands place,

4 is in the Thousands place,

3 is in the Hundreds place,

2 in the Tens place and

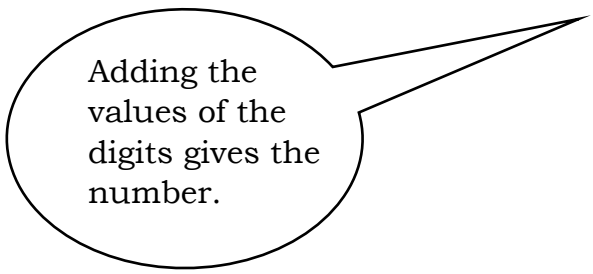
1 is in the Ones place.

The value of a digit in a number can be determined by multiplying the digit by its numerical place value as shown in the procedure below.

| Place Value | Hundred Thousands | Ten Thousands | Thousands | Hundreds | Tens | Ones |
|---|---|---|---|---|---|---|
| Digits | 6 | 5 | 4 | 3 | 2 | 1 |
| Value | | | | | 20 | 1 |
| | | | | 300 | | |
| | | | 4 000 | | | |
| | | 50 000 | | | | |
| | 600 000 | | | | | |

| | | |
|---|---|---|
| How did you get 1? | 1 is in the Ones place | 1 |
| How about 20? | 2 is in the Tens place | 20 |
| How about 300? | 3 is in the Hundreds place | 300 |
| How about 4 000? | 4 is in the Thousands place | 4 000 |
| How about 50 000? | 5 is in the Ten Thousands place | 50 000 |
| How about 600 00? | 6 is in the Hundred Thousands place | 600 000 |

| Digit | | | | Value |
|---|---|---|---|---|
| 1 | X | 1 | = | 1 |
| 2 | X | 10 | = | 20 |
| 3 | X | 100 | = | 300 |
| 4 | X | 1 000 | = | 4 000 |
| 5 | X | 10 000 | = | 50 000 |
| 6 | X | 100 000 | = | 600 00 |
| | | | | **654 321** |




## D. Let's Try!

**Activity 1.** Put the following numbers in their proper places in the place value chart:

| | | |
|---|---|---|
| 4 - Tens | 6 - Hundreds | 8 - Ten Thousands |
| 7 - Thousands | 2 – Ones | 4 – Hundred Thousands |

| **PLACE VALUE CHART OF WHOLE NUMBERS** | | | | | |
|---|---|---|---|---|---|
| **THOUSANDS** | | | **UNITS** | | |
| Hundred Thousands | Ten Thousands | Thousands | Hundreds | Tens | Ones |
| | | | | | |

What is the number? _____

**Activity 2.** Give the value of the underlined digit.

1. 328 6<u>5</u>4 _____
2. <u>8</u>30 421 _____
3. 364 <u>2</u>18 _____
4. 4<u>5</u>0 084 _____
5. 67<u>3</u> 816 _____

**Activity 3.** In 628 947, what digit is in the

Hundreds place? _____ Thousands place? _____

Ones place? _____ Hundred Thousands place? _____

Ten Thousands place? _____ Tens place? _____

## E. Let's Evaluate!

a. Identify the place value and value of the underlined digit in

each number. Write it on your paper.

| | Place Value | Value |
|---|---|---|
| 1. 231 <u>3</u>84 | _____ | _____ |
| 2. 7<u>5</u>9 631 | _____ | _____ |
| 3. 96<u>4</u> 965 | _____ | _____ |
| 4. <u>6</u>97 438 | _____ | _____ |
| 5. 564 8<u>9</u>2 | _____ | _____ |

b. Write the digit at the place value of the given number:

**246 378.**

_____1. Thousands

_____2. Ones

_____3. Hundreds

_____4. Ten Thousands

_____5. Tens

_____6. Hundred Thousands

## Challenge!

1. What place value does **8** hold in each number? Write the answer on your paper.
   a. 28 654 _____
   b. 183 021 _____
   c. 4 218 _____
   d. 50 084 _____
   e. 874 516 _____

2. What number is it based on the clues?
   a. What is the smallest 5-digit number without repeating digit?
   b. What is the largest 5-digit number that contains the digits 8, 6, 0, 9 and 2?
   c. What new number will be formed if the ten thousands digit of the number 47 682 is increased by 5 and the tens digit is decreased by 3?

## F. References

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# ANSWER KEY

## A. Look Back

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

## D. Let's Try

**a.** The number is **<u>487 642</u>**

**b**.

**c**.

1. Tens
2. Hundred thousands
3. Hundreds
4. Ten Thousands
5. Thousands

Hundreds place? 9
Thousands place? 8
Ones place? 7
Hundred Thousands place? 6
Ten Thousands place? 2
Tens place? 4

## E. Let's Evaluate

**a.**

| Place Value | Value |
|---|---|
| 1. hundreds | 300 |
| 2. ten thousands | 50 000 |
| 3. thousands | 4 000 |
| 4. hundred thousands | 600 000 |
| 5. tens | 90 |

**b.**

1. 6
2. 8
3. 3
4. 4
5. 7
6. 2

## E. Challenge!

1. a. Thousands
   b. Ten thousands
   c. Ones
   d. Tens
   e. Hundred thousands

2. a. 10 234
   b. 98 620
   c. 97 652