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# Mathematics 4
# Microlearning Module

## QUARTER 2 – Module 7

*Performing two or more different operations by applying the MDAS rules*



MLM
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Microlearning Module

**REGION XII - DIVISION OF SULTAN KUDARAT**

**Mathematics 4**
**Quarter 2 MLM 7: Performing two or more different operations by applying the MDAS rules**
**First Edition, 2024**

Published by the Department of Education- RO XII, Division of Sultan Kudarat

# Microlearning Module no. 7

Name: _____Grade & Sec:____Score:__
Subject:  Mathematics 4          Quarter:__2__    MLM No.___7___
Teacher: _____
Competency: Perform two or more different operations by applying the
              MDAS rules

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**A. Look Back!**

What is a number sentence?

Write a number sentence for each situation below:

a.  Thirty-five combined with twenty- five.
b. Ana bought ten pencils and forty boxes of crayons. If she combines
   them, how many items will she have in total?

**B. What's New?**

- Have you ever tried solving using four fundamental operations
  in one problem?

- How did you solve it?

- What rule did you use to solve it?

- This time, you will learn how to perform a series of two or
  more operations. Are you excited? Let's begin.

**C. What Is It?**

Mr. Del Rosario asked two students, Nilo and Mica, to answer
their exercises and present their solutions on board using MDAS
rule. They came up with the following solutions.

| **Nilo** | **Mica** |
|---|---|
| $14 \div 2 - 4 + 3 \times 2$ | $14 \div 2 - 4 + 3 \times 2$ |
| $= 14 \div 2 - 4 + 6$ | $= 7 - 4 + 3 \times 2$ |
| $= 7 - 4 + 6$ | $= 7 - 4 + 6$ |
| $= 10 - 7$ | $= 3 + 6$ |
| N= 3 | N= 9 |

Nilo used multiplication first, followed by division, addition, and then subtraction to get 3. On the other hand, Mica used division first, then multiplication, next subtraction, and lastly addition, so she got 9. Who has the correct answer? Why?

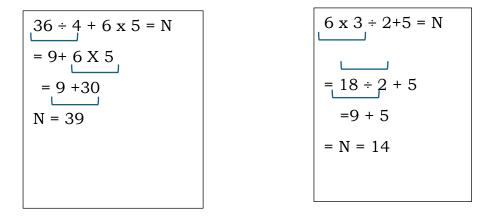**Mica** has the correct answer. She followed the MDAS rule from left to right, whichever came first.
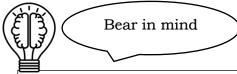
**MDAS rule:**

**M**ultiplication
**D**ivision — Multiplication or division should be done from left to right, whichever comes first.

**A**ddition — Next, addition or subtraction should
**S**ubtraction — be done from left to right, whichever comes first.

More examples;

$36 \div 4 + 6 \times 5 = N$

$= 9 + 6 \times 5$

$= 9 + 30$

$N = 39$

$6 \times 3 \div 2 + 5 = N$

$= 18 \div 2 + 5$

$= 9 + 5$

$= N = 14$

Bear in mind

Here are the things to remember when performing a series of operations:

1. Do multiplication or division first from left to right.

2. Then, do addition or subtraction from left to right.

**D. Let's try!**

Answer the items below by matching column A with column B. Write your answer on a separate sheet of paper.

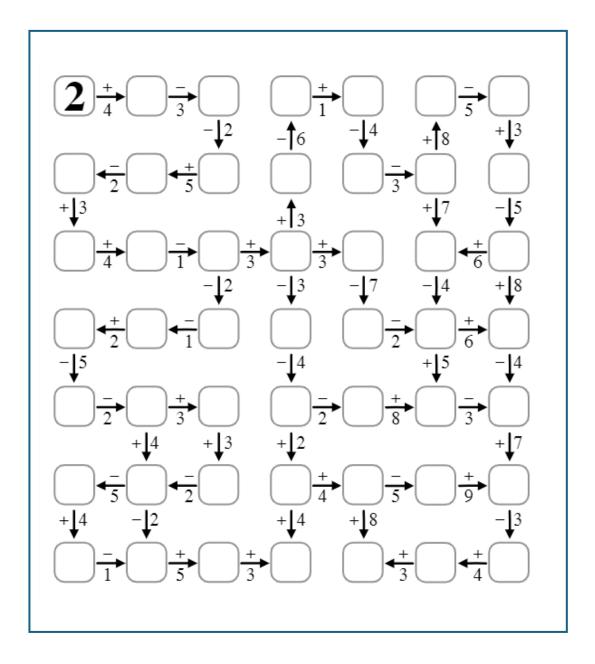| **A.** | **B.** |
|---|---|
| 1. 48 + 8 x 2=_____ | a. 64 |
| 2. 6 + 8 x 4 = ____ | b. 12 |
| 3. 7 x 3 - 9 = ____ | c. 26 |
| 4. 64 ÷ 8 - 4 + 6 =____ | d. 10 |
| 5. 6 + 5x 4 = _____ | e. 38 |

**E. Let's Evaluate!**

Compute the following by using the correct MDAS rule for each equation. Write your answer on a separate sheet of paper.

1. 5 x 8 + 9 =

2. 22 - 6 x 2 =

3. 5 ÷ 5 + 3 =

4. 5 + 3 x 8 =

5. 7 + 36 ÷ 3 =

6. 64 - 12 x 3 =

7. 5 x 6 - 7 + 8  =

8. 48 ÷ 6 x 2 - 4 =

9.  7 + 6 ÷ 3 - 5 =

10. 21 + 6 x 3÷ 6 =

Directions.

Analyze the puzzle, and fill in the missing numbers.

## F. References

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