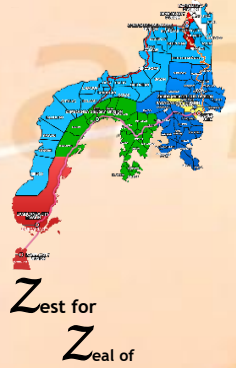


3

amboana



Mathematics
Second Quarter- Module 2
Properties of Multiplication

- JANUARY
Makugihon
- FEBRUARY
Makigugmaon
- MARCH
Malinabunyon
- APRIL
Matinahuron
- MAY
Mahapsay og Malimpyo
- JUNE
*Maabtik og Masurod sa
Dsuaklong Oras*
- JULY
Maantigo og Maabilidad
- AUGUST
*Maginhunahunon
para sa Uban*
- SEPTEMBER
Madaginaton
- OCTOBER
Matinud-anon
- NOVEMBER
Masaligan
- DECEMBER
Maalampon



Name of Learner: _____
Grade & Section: _____
Name of School: _____

Mathematics – Grade 3

Alternative Delivery Mode

Second Quarter – Module 2: Properties of Multiplication

First Edition, 2020

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Hibalo-i Kini

Kini nga modyul gidisenyo alang kanimo. Ania kini aron makatabang kanimo aron ikaw mahanas unsaon pagmultiply. Kini nga modyul nabahin ngadto sa 4 ka aralin:

- **Aralin 1** Pagsulti sa Multiplication facts sa Numero 1 – 10.
K to 12 Curriculum Code: **M3NS –IIa-41.3**
- **Aralin 2** Commutative Property sa Multiplication.
K to 12 Curriculum Code: **M3NS –IIb-40.4,**
- **Aralin 3** Distributive Property sa Multiplication over Addition.
K to 12 Curriculum Code: **M3NS –IIb-40.5**
- **Aralin 4** Associative Property sa Multiplication.
K to 12 Curriculum Code: **M3NS –IIb-40.6**



Sulayi Kini

Sa 4×2 asa ang multiplicaan? Asa ang multiplier? Asa ang product?

$$\begin{array}{r} 1. \quad 5 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 9 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 7 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 6 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 9 \\ \times 5 \\ \hline \end{array}$$

Aralin 1	Pagsulte sa Multiplication facts sa Numero 1 – 10.
---------------------	---



Subli-a Kini

Pangitaa ang **value** sa **n**.

- 1.) $9 \times 8 = n$
- 2.) $5 \times 8 = n$
- 3.) $4 \times 9 = n$
- 4.) $5 \times 9 = n$
- 5.) $7 \times 9 = n$



Kat-oni Kini

Pangitaa ang **product**. Kopyaha ug isulat ang inyong tubag sa **chart**.

x	8	Product
2		
4		



Susiha Kini

Tun-i ang **table** sa ubos ug isulat ang nawalang numero.

x	1	2	3	4	5	6	7	8	9	10
1	1		3		5			8	9	10
2	2				10			16	18	
3	3		9		15			24		30
4		8		16	20		28			
5	5			20	25		35			50



Pagpauswag

Ihatag ang **product**.

1.) $1 \times 5 =$	6.) $6 \times 1 =$	11.) $3 \times 6 =$
2.) $2 \times 9 =$	7.) $7 \times 3 =$	12.) $8 \times 4 =$
3.) $3 \times 7 =$	8.) $8 \times 8 =$	13.) $6 \times 9 =$
4.) $4 \times 4 =$	9.) $9 \times 10 =$	14.) $10 \times 8 =$
5.) $5 \times 6 =$	10.) $10 \times 2 =$	15.) $4 \times 7 =$



Hinumdumi Kini

Unsaon man nato paghulagway/visualizing sa multiplication.

Paghulagway sa multiplication:

- Multiplication is repeated addition.
- Sa pagkuha sa product sa multiplication, i-multiply ang multiplican sa multiplier.
- Unsaon man nato paghulagway/visualizing sa multiplication.



Buhata Kini

Ihatag ang **product** sa mosunod nga pares sa numero.

- $2 \times 6 =$
- $7 \times 8 =$
- $10 \times 6 =$
- $8 \times 5 =$
- $9 \times 9 =$



Ebalwasyon

Ihatag ang **product** sa mosunod nga pares sa numero.

- $3 \times 7 =$
- $6 \times 5 =$
- $1 \times 3 =$
- $9 \times 3 =$

Aralin 2

Commutative Property sa Multiplication



Subli-a Kini

Ihatag ang product sa mosunod nga pares nga numero.

1). $6 \times 3 =$

2). $7 \times 5 =$

3). $7 \times 9 =$

4). $7 \times 3 =$

5). $10 \times 6 =$



Kat-oni Kini

Pangitaa ang **product** sa mosunod.

1) 7

2) 6

3) 6

4) 7

5) 7

$\times 3$

$\times 6$

$\times 8$

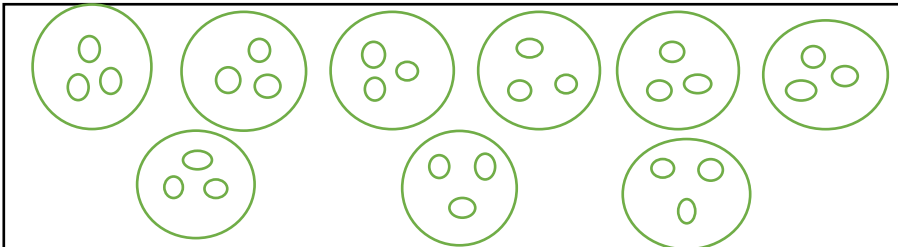
$\times 7$

$\times 6$

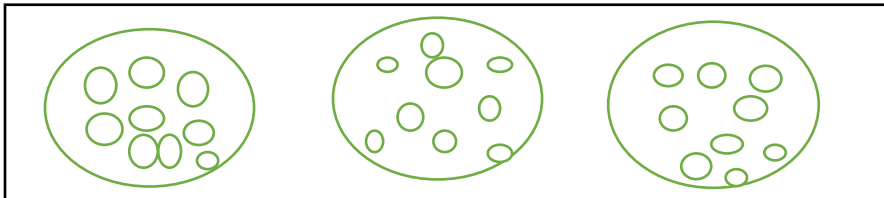


Susiha Kini

Tun-i ang hulagway. Isulat ang **multiplication sentence** sa matag butang.



Multiplication sentence: $9 \times 3 = 27$



Multiplication sentence: $3 \times 9 = 27$

Kon imong butangan og **relation symbol** ($>$, $<$, $=$) sa tunga sa duha ka **number sentences**, unsa nga simbolo kini? Ang position sa factors naosob pero ang product pareho kini ang commutative property of multiplication $9 \times 3 = 27$, $3 \times 9 = 27$.



Pagpauswag

Buhata ang gihatag nga buluhaton. Ipakita ang **commutative property** sa **multiplication** pinaagi sa pagdugtong sa **Column A** ug **Column B**. Isulat ang letra sa hustong tubag.

- A**
- 1.) 3×4
 - 2.) 5×6
 - 3.) 6×2
 - 4.) 8×3
 - 5.) 9×7

- B**
- a. 3×8
 - b. 2×6
 - c. 4×5
 - d. 7×9
 - e. 4×3
 - f. 6×5



Hinumdumi Kini

Unsaon man nato pag-ila ang commutative property sa multiplication.

- Ang position sa factors nausob pero pareha ra ang product.



Buhata Kini

Isulat ang nawala nga **factor** sa inyong **notebook**.

- 1.) $7 \times 4 = \underline{\quad} \times 7$
- 2.) $2 \times \underline{\quad} = 5 \times 2$
- 3.) $6 \times 3 = 3 \times \underline{\quad}$
- 4.) $8 \times \underline{\quad} = 4 \times 8$
- 5.) $\underline{\quad} \times 9 = 9 \times 7$



Ebalwasyon

Gamit ang **commutative property**, pangitaa ang hustong tubag sulod sa kahon ug isulat ang letra niini sa inyong papel.

- 1.) 2×4
- 2.) 5×9
- 3.) 6×7
- 4.) 8×6
- 5.) 9×8

- | |
|-----------------|
| a. 7×6 |
| b. 6×8 |
| c. 8×9 |
| d. 4×2 |
| e. 9×5 |
| f. 7×3 |

Aralin
3

**Distributive property of
Multiplication over addition**



Subli-a Kini

Kompletoha ang **multiplication sentences** pinaagi sa paggamit sa **commutative property** sa **multiplication** unya ihatag ang **product**.

1. $5 \times 8 = \square \times \square$

3.) $\square \times 6 = 6 \times 4$

2. $6 \times 7 = \square \times 6$

4.) $3 \times \square = 9 \times 3$



Kat-oni Kini

Naa ko 2 sets of 59 ribbons. Pila ka ribbons naa nako tanan?

- 2×59 using repeated addition

$59 + 59 = \square$

Sa laen pamaagi gamit ang expanded form.

$$\begin{array}{r}
 59 = 50 + 9 \\
 \underline{\times 2} \quad \underline{\times 2} \quad \underline{\times 2} \\
 100 \qquad 18
 \end{array}$$

So, $100 + 18 = 118$



Susiha Kini

Usba pagsulat ang **2-digit** nga numero ngadto sa **expanded form**.

1.) $\begin{array}{r} 12 \\ \times 4 \end{array}$

2.) $\begin{array}{r} 25 \\ \times 2 \end{array}$

3.) $\begin{array}{r} 39 \\ \times 5 \end{array}$

4.) $\begin{array}{r} 41 \\ \times 8 \end{array}$

5.) $\begin{array}{r} 57 \\ \times 3 \end{array}$



Pagpauswag

Usba pagsulat ang **2-digit** nga numero ngadto sa **expanded form**.

6.) $\begin{array}{r} 6 \\ \times 54 \end{array}$

7.) $\begin{array}{r} 7 \\ \times 93 \end{array}$

8.) $\begin{array}{r} 9 \\ \times 82 \end{array}$

9.) $\begin{array}{r} 2 \\ \times 79 \end{array}$

10.) $\begin{array}{r} 3 \\ \times 68 \end{array}$



Hinumdumi Kini

Unsaon pag-multiply 2-digit numbers by 1-digit.

- To multiply 2-digit numbers by 1-digit numbers easily, use the distributive property.
- We use the 1-digit number to multiply with the tens first, then with the ones and add



Buhata Kini

Usba pagsulat ang **multiplicand** ngadto sa **expanded form**. I-multiply ang **multiplier** sa **tens** ug **ones** nga bahin pagkuha sa **final** nga **product**.

1.) 14	2.) 25	3.) 52	4.) 19	5.) 27
$\times 2$	$\times 5$	$\times 2$	$\times 3$	$\times 4$



Ebalwasyon

Ipares ang **product** sa **column A** sa **multiplication sentence** nga anaa sa **column B**.

A	B
1.) 57	a. $(30 \times 2) + (6 \times 2) = n$
2.) 72	b. $(4 \times 70) + (4 \times 3) = n$
3.) 270	c. $(10 \times 3) + (9 \times 3) = n$
4.) 292	d. $(20 \times 6) + (8 \times 6) = n$
5.) 435	e. $(40 \times 6) + (5 \times 6) = n$

I-rewrite ang **multiplicand** ngadto sa **expanded** nga pamaagi. Ihatag ang **product** sa mosunod gamit ang **distributive property of multiplication over addition**.

1.) 15	2.) 29	3.) 38	4.) 63	5.) 82
$\times 9$	$\times 2$	$\times 7$	$\times 3$	$\times 4$

Aralin 4

Associative Property sa Multiplication



Subli-a Kini

Adunay tulo ka **factor** sa matag **sentence**. Gamiti og **parenthesis** aron sa pagpundok sa duha ka **factor**. Pila ka pamaagi ang inyong mabuhat? Isulat ang mga posibleng pamaagi. Pangitaa ang **value** sa G.

- 1.) $3 \times 4 \times 2 = G$
- 2.) $1 \times 6 \times 6 = G$
- 3.) $4 \times 5 \times 6 = G$
- 4.) $6 \times 2 \times 3 = G$
- 5.) $9 \times 8 \times 5 = G$



Kat-oni Kini

Pundoka ang duha ka **factor** nga mahimong sayon ang **multiplication**, unya ihatag ang **product**.

- 1.) $2 \times 3 \times 5 =$ _____
- 2.) $4 \times 7 \times 2 =$ _____
- 3.) $6 \times 1 \times 4 =$ _____
- 4.) $8 \times 5 \times 3 =$ _____
- 5.) $9 \times 4 \times 5 =$ _____



Susiha Kini

Adunay tulo ka **factor** sa matag **sentence**. Gamiti og **parenthesis** aron sa pagpundok sa duha ka **factor**. Pila ka pamaagi ang inyong mabuhat? Isulat ang mga posibleng pamaagi. Pangitaa ang **value** sa G.

- 1.) $3 \times 4 \times 2 = (3 \times 4) \times 2 = 3 \times (4 \times 2) = 24$
- 2.) $1 \times 6 \times 6 = (1 \times 6) \times 6 = 1 \times (6 \times 6) = 36$
- 3.) $4 \times 5 \times 6 = (4 \times 5) \times 6 = 4 \times (5 \times 6) = 120$
- 4.) $6 \times 2 \times 3 = (6 \times 2) \times 3 = 6 \times (2 \times 3) = 36$



Pagpauswag

Pundoka ang duha ka **factor** nga mahimong sayon ang **multiplication**, unya ihatag ang **product**.

- 1.) $2 \times 3 \times 5 = (2 \times 3) \times 5$ or $2 \times (3 \times 5) = 30$
- 2.) $4 \times 7 \times 2 = (4 \times 7) \times 2$ or $4 \times (7 \times 2) = 56$
- 3.) $6 \times 1 \times 4 = (6 \times 1) \times 4$ or $6 \times (1 \times 4) = 24$
- 4.) $8 \times 5 \times 3 = (8 \times 5) \times 3$ or $8 \times (5 \times 3) = 120$
- 5.) $9 \times 4 \times 5 = (9 \times 4) \times 5$ or $9 \times (4 \times 5) = 180$



Hinumdumi Kini

To multiply 3, 1-digit numbers gamit ang associative property:

1. Multiply og una ang factors sulod sa parenthesis.
2. Multiply ang answer sa remaining factor.
3. Kon 3 ang ge-multiplied, ang product pareho regardless sa grouping sa factors.



Ebalwasyon

Pangitaa ang nawalang numero.

- 1.) $2 \times (3 \times 9) = (2 \times \underline{\quad}) \times 9 = \underline{\quad}$
- 2.) $(5 \times 4) \times \underline{\quad} = 5 \times (4 \times 8) = \underline{\quad}$
- 3.) $(7 \times 8) \times 3 = \underline{\quad} \times (8 \times 3) = \underline{\quad}$
- 4.) $(6 \times 2) \times 9 = 6 \times (\underline{\quad} \times 9) = \underline{\quad}$
- 5.) $8 \times (3 \times 1) = (\underline{\quad} \times 3) \times 1 = \underline{\quad}$

Module 2-Week 2 Quarter 2

Aralin 1

Answer Key:

Sulayi Kini

- 1) 10 2) 18 3) 21 4) 42 5) 45

Subli-a Kini

- 1) 72 2) 40 3) 36 4) 45 5) 63

Kat-oni Kini

$2 \times 8 = 16$ $4 \times 8 = 32$

Susiha Kini

x	1	2	3	4	5	6	7	8	9	10
1	1	2	3	8	5	6	7	8	9	10
2	2	4	6	12	10	12	14	16	18	20
3	3	6	9	16	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50

Pagpauwag

- 1) 5 2) 18 3) 21 4) 16 5) 30
6) 6 7) 21 8) 64 9) 90 10) 20
11) 18 12) 32 13) 54 14) 80 15) 28

Ebalwasyon

- 1) 21 2) 30 3) 3 4) 27

Aralin 2

Subli-aKini

- 1) 18 2) 35 3) 63 4) 21 5) 60

Kat-oni Kini

- 1). 21 2). 36 3) 48 4) 49 5) 42

Pagpauswag

- 1) E 2) f 3) b 4) a 5) d

Buhata Kini

- 1) 4 2) 5 3) 6 4) 4 5) 7

Ebalwasyon

- 1) d 2) e 3) a 4) b 5) c

Aralin 3

Subli-a Kini

- 1) 8×5 2) 7 3) 4 4) 9

Susiha Kini

$$\begin{array}{r} 2.) \quad 12 \\ \quad \times 4 \\ \hline \end{array} \quad \begin{array}{r} 10 + 2 \\ \times 4 \quad \times 4 \\ \hline 40 + 8 = 48 \end{array}$$

$$\begin{array}{r} 2.) \quad 25 \\ \quad \times 2 \\ \hline \end{array} \quad \begin{array}{r} 20 + 5 \\ \underline{\times 2 \quad \times 2} \\ 40 + 10 = 50 \end{array}$$

$$\begin{array}{r} 3). \quad 39 \\ \quad \times 5 \\ \hline \end{array} \quad \begin{array}{r} 30 + 9 \\ \underline{\times 5 \quad \times 5} \\ 150 + 45 = 195 \end{array}$$

$$\begin{array}{r} 4). \quad 41 \\ \quad \times 8 \\ \hline \end{array} \quad \begin{array}{r} 40 + 1 \\ \underline{\times 8 \quad \times 8} \\ 320 + 8 = 328 \end{array}$$

$$\begin{array}{r} 5). \quad 57 \\ \quad \times 3 \\ \hline \end{array} \quad \begin{array}{r} 50 + 7 \\ \underline{\times 3 \quad \times 3} \\ 150 + 21 = 171 \end{array}$$

Ebalwasyon

A.

- 1) C 2) a 3) e 4) b 5) d

$$\begin{array}{r} B \quad 1) \quad 15 \\ \quad \times 9 \\ \hline \end{array} \quad \begin{array}{r} 10 + 5 \\ \underline{\times 9 \quad \times 9} \\ 90 + 45 = 135 \end{array} \quad \begin{array}{r} 2) \quad 29 \\ \quad \times 2 \\ \hline \end{array} \quad \begin{array}{r} 20 + 9 \\ \underline{\times 2 \quad \times 2} \\ 40 + 18 = 58 \end{array} \quad \begin{array}{r} 3) \quad 38 \\ \quad \times 7 \\ \hline \end{array} \quad \begin{array}{r} 30 + 8 \\ \underline{\times 7 \quad \times 7} \\ 210 + 56 = 266 \end{array}$$

$$\begin{array}{r} 4) \quad 63 \\ \quad \times 3 \\ \hline \end{array} \quad \begin{array}{r} 60 + 3 \\ \underline{\times 3 \quad \times 3} \\ 180 + 9 = 189 \end{array} \quad \begin{array}{r} 5) \quad 82 \\ \quad \times 4 \\ \hline \end{array} \quad \begin{array}{r} 80 + 2 \\ \underline{\times 4 \quad \times 4} \\ 320 + 8 = 328 \end{array}$$

Aralin 4

Subli-a Kini

- 1) 24 2) 36 3) 120 4) 36 5) 360

Kat-oni Kini

- 1) 30 2) 56 3) 24 4) 120 5) 180

Ebalwasyon

- 1) $2(3 \times 9) = (2 \times 3) \times 9 = 54$
2) $(5 \times 4) \times 8 = 5 \times (4 \times 8) = 160$
3) $(7 \times 8) \times 3 = 7 \times (8 \times 3) = 168$
4) $(6 \times 2) \times 9 = 6 \times (2 \times 9) = 108$
5) $8(3 \times 1) = (8 \times 3) \times 1 = 24$

Region IX : Zamboanga Peninsula Hymn – Our Eden Land

Here the trees
And flowers bloom
Here the breezes gently blow,
Here the birds sing merrily,
The liberty forever Stays,
Here the Badjaos roam the seas
Here the Samals live in peace
Here the Tausogs thrive so free
With the Yakans in unity

Gallant men And Ladies fair
Linger with love and care
Golden beams of sunrise and sunset
Are visions you'll never forget
Oh! That's Region IX
Hardworking people abound,
Every valleys and dale
Zamboangueños, Tagalogs, Bicolanos,

Cebuanos, Ilocanos, Subanons, Boholanos, Ilongos,
All of them are proud and true
Region IX our Eden Land
Region IX
Our
Eden...
Land

The Footprints Prayer

One night I had a dream...

I dreamed I was walking along the beach with the Lord, and
Across the sky flashed scenes from my life. For each scene I
noticed two sets of footprints in the sand; One belonged to me, and the other to the
Lord. When the last scene of my life flashed before us, I looked back at the footprints in
the sand. I noticed that many times along the path of my life, There was only one set of footprints.

I also noticed that it happened at the very lowest
and saddest times in my life

This really bothered me, and I questioned the Lord about it.

"Lord, you said that once I decided to follow you,

You would walk with me all the way;

But I have noticed that during the
most troublesome times in my life,
There is only one set of footprints.

I don't understand why in times when I
needed you the most, you should leave me.

The Lord replied, "My precious, precious
child. I love you, and I would never,
never leave you during your times of trial and suffering.

When you saw only one set of footprints,
It was then that I carried you.

Trees

Joyce Kilmer - 1886-1918

I think that I shall never see

A poem lovely as a tree.

A tree whose hungry mouth is prest

Against the sweet earth's flowing breast;

A tree that looks at God all day,

And lifts her leafy arms to pray;

A tree that may in summer wear

A nest of robins in her hair;

Upon whose bosom snow has lain;

Who intimately lives with rain.

Poems are made by fools like me,

But only God can make a



