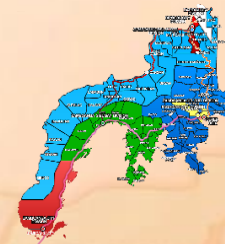


3



Zest for
Zeal of

Mathematics

Second Quarter – Module 4

Estimating Products Mentally

JANUARY	Makugilton
FEBRUARY	Makigugmaon
MARCH	Matinabungen
APRIL	Matinaburon
MAY	Mahapsay og Malimpyo
JUNE	Maabtik og Masuwad sa Dhaklong Oras
JULY	Maantigo og Maabilidad
AUGUST	Maginhuhuhunon para sa Uban
SEPTEMBER	Madaginoton
OCTOBER	Matinud-anon
NOVEMBER	Masaligan
DECEMBER	Maalampunon

Name of Learner _____

Grade and Section _____

Grade Name _____

Learning Mode
– Module
Products

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Published by the Department of Education
Secretary: Leonor Magtolis Briones
Undersecretary: Diosdado M. San Antonio

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Published by the Department of Education – Region IX Schools Division of Zamboanga del Norte

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Hibalo-I Kini

Kini nga modyul gidisenyo alang kanimo. Ania kini aron makatabang kanimo aron ikaw mahanas unsaon **pagbanabana sa products**. Kini usab naghatag kanimo ug giya unsaon **pagmultiply ug 2 ka digit sa 1 ka digit nga Numero nga Adunay Product nga hangtod 100** nga Dili Mogamit og Papel ug Lapis sa Pagkuwenta

Kini nga modyul nabahin ngadto sa 2 ka aralin:

- **Aralin 1** Estimates the Product of 2-to 3 Digit Numbers and 1 to 2 Digit Numbers with Reasonable Results
K to 12 Curriculum CODE : M3NS-IId-44.1
- **Aralin 2** Multiplies mentally 2-digit by 1 –digit Numbers without Regrouping with Products of up to 100
K to 12 Curriculum CODE : M3NS-Ile-42.2

Aralin 1	<h2 style="margin: 0;">Pagbanabana sa Products</h2>
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Subli-a Kini

A. I -round ang mosunod sa kinaduolan nga tens.

159 _____ 238 _____ 142 _____ 2 385 _____

B. I- round ang mosunod sa kinaduolan nga hundreds.

258 _____ 128 _____ 235 _____ 368 _____ 912 _____

C. I- round ang mosunod sa kinaduolan nga thousands.

3456 _____ 1242 _____ 7821 _____ 3219 _____ 1245 _____



Kat-oni Kini

Kada-adlaw , adunay 594 food packages / pinutos nga mga pagkaon nga ipanghatag isip tabang sa Balay Dalangpananan, Banabanaa kung mga pila ka pinutos nga pagkaon nga madawat sa maong tabang sa Balay Dalangpananan sa sulod sa 7 ka adlaw?



Susiha Kini

I - **Round** ang unang numero / factor ngadto sa kinatas-an nga **place**. I - **multiply** ang numero sa maong abot o **product**.

$\begin{array}{r} 594 \\ \times 7 \\ \hline 4158 \end{array}$	\longrightarrow	$\begin{array}{r} 600 \\ \times 7 \\ \hline 4200 \end{array}$
\downarrow		\downarrow

Actual nga resulta

Banabana nga product

4 158 kinaduolan sa 4 200 ang maong tubag makatarunganun.



Pagpauswag

A. Banabanaa matag **product**.

1) $\begin{array}{r} 73 \\ \times 5 \\ \hline \end{array}$	2) $\begin{array}{r} 87 \\ \times 6 \\ \hline \end{array}$	3) $\begin{array}{r} 74 \\ \times 4 \\ \hline \end{array}$	4) $\begin{array}{r} 473 \\ \times 6 \\ \hline \end{array}$	5) $\begin{array}{r} 664 \\ \times 8 \\ \hline \end{array}$
--	--	--	---	---

B. I – **round** ang **multiplicand** ug **multiplier** unya banabanaa ang **product**.

1) $\begin{array}{r} 331 \longrightarrow \\ \times 29 \longrightarrow \\ \hline \end{array}$	2) $\begin{array}{r} 241 \longrightarrow \\ \times 46 \longrightarrow \\ \hline \end{array}$	3) $\begin{array}{r} 284 \longrightarrow \\ \times 21 \longrightarrow \\ \hline \end{array}$
_____	_____	_____
4) $\begin{array}{r} 145 \longrightarrow \\ \times 35 \longrightarrow \\ \hline \end{array}$	5) $\begin{array}{r} 782 \longrightarrow \\ \times 12 \longrightarrow \\ \hline \end{array}$	
_____	_____	



Hinumdomi Kini

Unsaon man nato pagbanabana sa product?

Pagbanabana sa product:

- Kon magbanaba kita sa **product** og 1-digit hangtod sa 2 ka digit nga factor, **i- round** ang unang factor ngadtp sa duol nga kinatasang place o **nearest highest place** ug i-multiply sa ikaduha nga factor.
- Kon magbanabana kita sa product og 2 –digit second factor, i-round ang duha ka factor ngadto sa duol nga kinatas-ang place, ug i-multiply ang na round off nga numero/factor para makuha ang **estimated product**.
- Dili na kinahanglan I-round kung usa lang kini ka Numero



Buhata Kini

A. Pangitaa ang factors nga kon i-multiply mohatag sa banabana nga **product** sa wala.

- | | | | |
|----------|---------|---------|---------|
| 1) 60 | 6 x 14 | 5 x 18 | 5 x 13 |
| 2) 150 | 4 x 34 | 4 x 36 | 5 x 28 |
| 3) 270 | 9 x 24 | 9 x 26 | 8 x 31 |
| 4) 360 | 6 x 53 | 7 x 47 | 6 x 58 |
| 5) 4 500 | 8 x 542 | 7 x 684 | 9 x 487 |

B. Banabana ug sulbara ang matag problem.

- 1). Adunay 12 ka ballpen sulod sa usa ka kahon. Pila ka ballpen



tanang ang sulod sa 38 ka kahon?

2). Ang kang Jeff nga holen pilo-piloon ug katulo kaysa kang John. Kang John nga holen, sama kadaghana sa kang Nathaniel nga holen. Adunay 126 ka holen si Nathaniel man ang holen ni Jeff?

3) 125 ka pasaheroan nga jeep ang miagi sulod sa us aka oras. Mga pila ka buok pasaheroan nga jeep ang moagi sulod sa 12 ka oras?



Ebalwasyon

Banabanaa ang product.

$$\begin{array}{r} 1) \ 83 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \ 67 \\ \times 41 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \ 165 \\ \times 37 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \ 122 \\ \times 56 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \ 76 \\ \times 52 \\ \hline \end{array}$$

Aralin 2

Multiplying 2 ka Digit sa 1 ka Digit nga Numero nga Adunay Product nga Hangtod 100 nga Dili Mogamit og papel ug Lapis sa Pagkuwenta



Sublia-Kini

Ihatag ang product sa mosunod nga pares nga numero.

$$1) 9 \times 3 = \quad 2) 8 \times 5 = \quad 3) 7 \times 9 = \quad 4) 8 \times 3 = \quad 5) 10 \times 6 =$$



Kat-oni Kini

Banabanaa ang product.

$1) 125 \times 25 =$

$2) 346 \times 18 =$

$3) 981 \times 15 =$

$4) 483 \times 8 =$

$5) 532 \times 14 =$



Susiha Kini

Adunay upat ka lalaki nga mitabang sa ilang magtutudlo sa pag-uli sa mga libro nga buluhaton sa library. Matag-usa ka lalaki nagbitbit ug napulo ka libro. Pila tanan ang gibitbit nga mga libro sa mga lalaki?

Gamit ang hunahuna, I- multiply ang 12 sa 4.

I **multiply** ang ones sa ones. I multiply ang tens sa ones
I hatag ang product .

Step 1

$$\begin{array}{r} 12 \\ \times 4 \\ \hline 8 \end{array}$$

Step 2

$$\begin{array}{r} 12 \\ \times 4 \\ \hline 48 \end{array}$$

Ang product is 48.

Adunay 48 tanan ka mga libro na buluhaton nga gibitbit sa mga lalaki.



Pagpauswag

Banabanaa ang product nga dili mogamit og papel ug lapis sa pagkuwenta.

$1) \begin{array}{r} 13 \\ \times 3 \end{array}$

$2) \begin{array}{r} 11 \\ \times 8 \end{array}$

$3) \begin{array}{r} 21 \\ \times 4 \end{array}$

$4) \begin{array}{r} 13 \\ \times 3 \end{array}$

$5) \begin{array}{r} 23 \\ \times 2 \end{array}$



Hinumdumi Kini

Unsaon man nato pag multiply sa 2 ka digit sa 1 ka Digit nga Numero nga dili mogamit og papel ug lapis sa pagkuwenta?

- I- multiply ang ones sa ones.
- I multiply ang tens sa ones.
- Ihatag ang product.



Buhata Kini

A. Banabanaa ang product nga dili mogamit og papel ug lapis sa pagkuwenta.

1)
$$\begin{array}{r} 20 \\ \times 5 \\ \hline \end{array}$$

2)
$$\begin{array}{r} 29 \\ \times 2 \\ \hline \end{array}$$

3)
$$\begin{array}{r} 12 \\ \times 4 \\ \hline \end{array}$$

4)
$$\begin{array}{r} 41 \\ \times 2 \\ \hline \end{array}$$

5)
$$\begin{array}{r} 12 \\ \times 5 \\ \hline \end{array}$$



Ebalwasyon

A. Banabanaa ang product nga dili mogamit og papel ug lapis sa pagkuwenta.

1.
$$\begin{array}{r} 12 \\ \times 2 \\ \hline \end{array}$$

2)
$$\begin{array}{r} 23 \\ \times 4 \\ \hline \end{array}$$

3)
$$\begin{array}{r} 36 \\ \times 7 \\ \hline \end{array}$$

4)
$$\begin{array}{r} 224 \\ \times 5 \\ \hline \end{array}$$

5)
$$\begin{array}{r} 563 \\ \times 3 \\ \hline \end{array}$$

B. Basaha ang word problem . Isulat ang product sa inyong papel.

1. Nagtanom og 3 ka linya sa sampaguita si Elvie. Sa matag linya adunay 12 ka sampaguita . Pila tanan ka sampaguita iyang natanom?
2. Nagtanom og binhi sat along sa 11 ka tuding si Francis. Matag tudling adunay 8 ka binhi. Pila tanan ka binhi ang iyang natanom?
3. Nangingil sa matag pasahero og Php20 alang sa **sight seeing trip** ang driver. Pila man ang iyang kitaon kon aduna siyay 5 ka pasahero?

Module 4-Week 4 Quarter 2

Aralin 1

Answer Key:

Sublia- Kini

- A. 160 , 240, 140 , 2390
- B. 300, 100, 200, 400, 900
- C. 3000, 1000, 8000, 3000, 1000

Pagpauswag

- A. 1) 350 2) 540 3) 280 4) 3000 5) 5 ,600

$$\begin{array}{r} 1) 331 - 300 \\ \times 29 \quad \underline{\times 30} \\ \hline 9000 \end{array}$$

$$\begin{array}{r} 2) 200 \\ \underline{\times 50} \\ 10,000 \end{array}$$

$$\begin{array}{r} 3) 284 - 300 \\ \underline{\times 21} \quad \underline{- 20} \\ 6000 \end{array}$$

$$\begin{array}{r} 4) 145 - 100 \\ \underline{\times 35} \quad \underline{- \times 40} \\ 4000 \end{array}$$

$$\begin{array}{r} 5) 782 - 800 \\ \underline{12} \quad \underline{\times 10} \\ 8000 \end{array}$$

Buhata Kini

- A 1) 5 x 13 2) 4 x 36 3) 9 x 26 4) 6 x 58 5) 9 x 487

- B) 1) $10 \times 40 = 400$ ka matag ballpens
2) $130 \times 3 = 390$ matag marbles
3) $130 \times 10 = 1,300$

Ebalwasyon

- 1) 720 2) 2800 3) 8000 4) 6000 5) 4000

Aralin 2

Subli-aKini

- 1) 27 2) 40 3) 63 4) 24 5) 60

Kat-oni Kini

- 1) $100 \times 30 = 3000$ 2) $300 \times 20 = 6000$ 3) $1000 \times 20 = 20,000$
4) $500 \times 8 = 4000$ 5) $500 \times 10 = 5000$

Pagpauwag

- 1) $10 \times 3 = 30$ 2) $10 \times 8 = 80$ 3) $20 \times 4 = 84$
4) $10 \times 3 = 30$ 5) $20 \times 2 = 40$

Buhata Kini

- 1) $20 \times 5 = 100$ 2) $30 \times 2 = 60$ 3) $10 \times 4 = 40$
4) $40 \times 2 = 80$ 5) $10 \times 5 = 50$

Ebalwasyon

- A.) $10 \times 2 = 20$ 2) $20 \times 4 = 80$ 3) $40 \times 7 = 280$
4) $200 \times 5 = 10000$ 5) $600 \times 3 = 1800$
B. 1) 36 sampaguita 2) 88 ka talong 3) Php 100

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.