

Mathematics 1

Microlearning Module

QUARTER 2 – Module 8

Adding Numbers by Expressing Addends as Tens and Ones (Expanded Form)



Mathematics 1

Microlearning Module (MLM)

Quarter 2 – Module 8: Adding Numbers by Expressing Addends as Tens and Ones (Expanded Form)

First Edition, 2024

Republic Act 8293, Section 176 states that “No copyright shall subsist in any work of the Government of the Philippines.” However, obtaining prior approval from the government agency or office where the work originated is required for the commercial use of such work. This agency or office may, among other things, impose as a condition the payment of royalties.

Materials borrowed for this module (e.g., songs, stories, poems, images, brand names, trademarks, etc.) are the property of their respective copyright owners. The publisher and authors do not assert ownership or representation over them.

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

Development Team

Writer : Gemma K. Dumaguing

Editors : Albert John P. Aquino, Judy Ann C. Barretto, Hazel D. Olegario, Elsie S. Yson

Evaluators : Vilma B. Quirog

Roger B. Famulag

Cover Art Designer: Jann Mark P. Oriel

Management Team: Crispin A. Soliven Jr., CESE – Schools Division Superintendent

Meilrose B. Peralta, EdD – Asst. Schools Division Superintendent

Ismael M. Ambalgan – Chief, CID

Sheryl L. Osano – EPS, LRMS

Rodolfo B. Bermudo Jr. EdD – EPS, Mathematics

Printed in the Philippines by

Department of Education – Region XII, Division of Sultan Kudarat

Office Address: Kenram, Isulan, Sultan Kudarat

Telefax: 064-471-1007

E-mail Address: depedsk.r12@deped.gov.ph

MICROLEARNING MODULE

Pangalan: _____ Baitang at Pangkat: _____ Iskor: _____

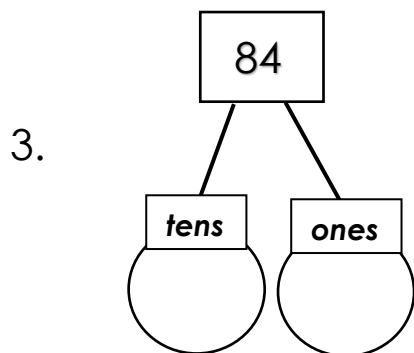
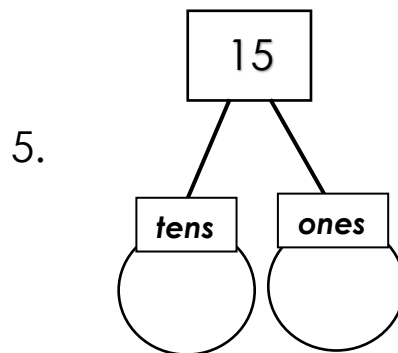
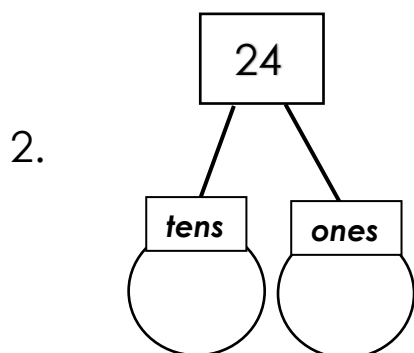
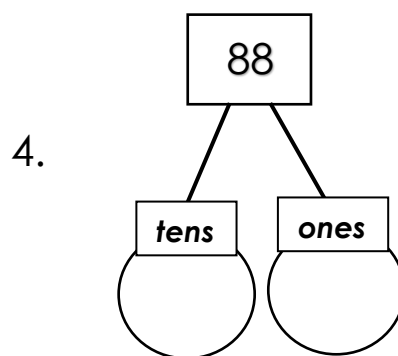
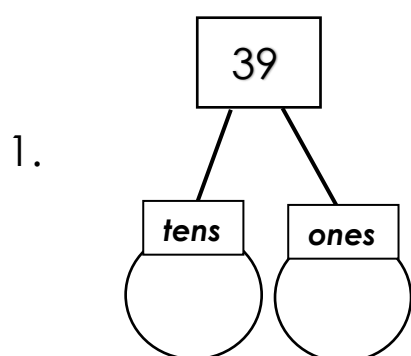
Asignatura: _____ Kuwarter: _____ MLM Bilang. _____

Guro: _____

Kasanayang Pagkatuto: Add numbers by expressing addends as tens and ones (Expanded Form)

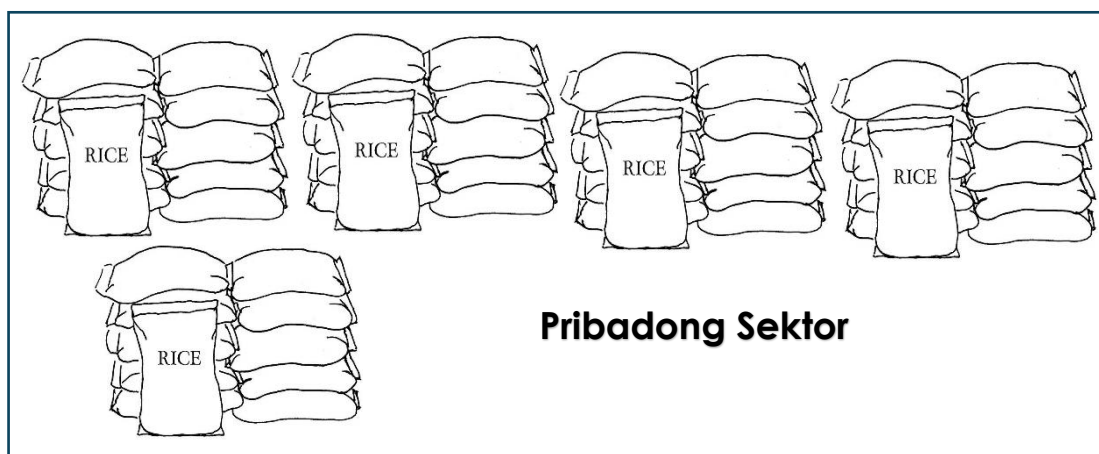
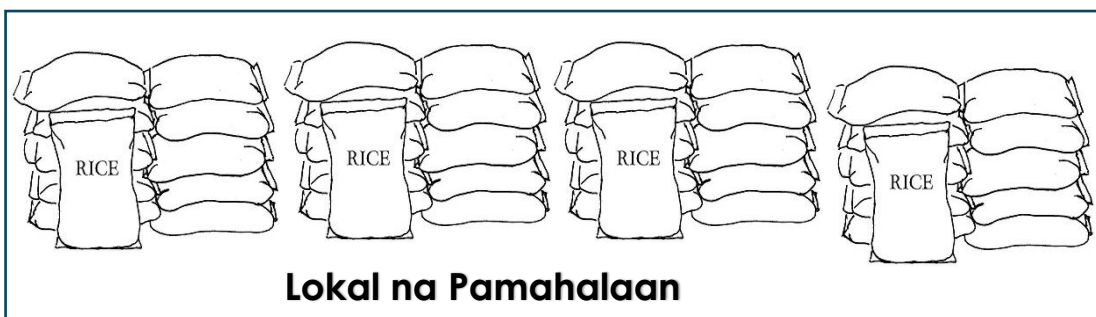
A. Ating Balikan!

I-decompose ang mga bilang sa *tens* at *ones*.



B. Ano'ng Bago?

Ang lokal na pamahalaan ay namahagi ng apatnapu't apat (44) na sakong bigas sa mga magsasakang naapektuhan ng *El Niño*. Samantalang, ang pribadong sektor ay namahagi ng limampu't limang (55) sakong bigas. Ilan lahat ang sako ng bigas ang ipinamahagi ng dalawang sektor?



Tanong:

1. Ano ang itinatanong sa suliranin? _____
2. Ano – anong mga datos (*given number*) ang ibinigay sa suliranin? _____

3. Ano ang *word clue*? _____
4. Anong operasyon ang gagamitin? _____
5. Ano ang pamilang na pangungusap? _____

C. Ano Ito?

- Sa pagdaragdag ng *two-digit numbers*, isulat ang ones sa kanang bahagi ng kolum at sa kaliwang bahagi ng kolum naman ang *tens*.
- Ang *addends* ay maaaring isulat *vertically* o patayo.
- Sa pagdaragdag o *addition*, maaaring gumamit ng *expanded form* o *long method*.
- Ang *expanded form* ay ang pinahabang pamamaraan ng pagsusulat ng bilang sa pamamagitan ng pagpapakita ng halaga nito sa bawat tambilang (*digit*).

Balikan natin ang suliranin sa What's New.

- Ano ang datos o *given numbers* sa suliranin?
 - (44 na sakong bigas mula sa lokal na pamahalaaan at 55 na sakong bigas mula sa pribadong sektor)
- Ang *addends* ay $44 + 55 =$ N

- Maaari nating isulat ang *addends* nang *pavertical* o patayo.

Tens	Ones
4	4
5	5

- Unang hakbang sa *addition* ng *two-digit number* ay ang pagdaragdag ng mga bilang sa *ones place*.

	Tens	Ones
	4	4
+	5	5
		9

- Ikalawang hakbang ay ang pagdaragdag ng mga bilang sa *tens place*.

	Tens	Ones
	4	4
+	5	5
	9	9

- Ang kabuuang bilang (*sum* o *total*) ay 99.
- Ang dalawang sektor ay namahagi ng 99 na sakong bigas

Maari nating makuha ang kabuuang bilang ng 44 at 55 gamit ang **expanded form o long method**.

$$\begin{array}{r} 44 = 40 + 4 \\ + 55 = 50 + 5 \\ \hline 90 + 9 \\ = 99 \end{array}$$

D. Ating Subukin!

Magsanay sa pagdaragdag gamit ang *expanded form o long method*. Isulat ang mga sagot sa patlang.

$$\begin{array}{r} 1. \quad 56 = \underline{\quad} + \underline{\quad} \\ + 11 = \underline{\quad} + \underline{\quad} \\ \hline = \underline{\quad} + \underline{\quad} \\ = \underline{\quad} \end{array}$$

$$\begin{array}{r} 2. \quad 33 = \underline{\quad} + \underline{\quad} \\ + 25 = \underline{\quad} + \underline{\quad} \\ \hline = \underline{\quad} + \underline{\quad} \\ = \underline{\quad} \end{array}$$

$$\begin{array}{r} 3. \quad 44 = \underline{\quad} + \underline{\quad} \\ + 21 = \underline{\quad} + \underline{\quad} \\ \hline = \underline{\quad} + \underline{\quad} \\ = \underline{\quad} \end{array}$$

$$\begin{array}{r}
 4. \quad 43 = \underline{\quad\quad} + \underline{\quad\quad} \\
 + 26 = \underline{\quad\quad} + \underline{\quad\quad} \\
 \hline
 = \underline{\quad\quad} + \underline{\quad\quad}
 \end{array}$$

$$\begin{array}{r}
 5. \quad 27 = \underline{\quad\quad} + \underline{\quad\quad} \\
 + 71 = \underline{\quad\quad} + \underline{\quad\quad} \\
 \hline
 = \underline{\quad\quad} + \underline{\quad\quad}
 \end{array}$$

E. Tayahin Natin!

Isulat ang *expanded form* ng bawat bilang at ibigay ang kabuuan nito. Punan ang patlang ng inyong sagot.

$$\begin{array}{r}
 1. \quad 84 = \underline{\quad\quad} + \underline{\quad\quad} \\
 + 14 = \underline{\quad\quad} + \underline{\quad\quad} \\
 \hline
 = \underline{\quad\quad} + \underline{\quad\quad} \\
 = \underline{\quad\quad}
 \end{array}$$

$$\begin{array}{r}
 2. \quad 22 = \underline{\quad\quad} + \underline{\quad\quad} \\
 + 57 = \underline{\quad\quad} + \underline{\quad\quad} \\
 \hline
 = \underline{\quad\quad} + \underline{\quad\quad} \\
 = \underline{\quad\quad}
 \end{array}$$

$$\begin{array}{r}
 3. \quad 24 = \underline{\quad\quad} + \underline{\quad\quad} \\
 + 41 = \underline{\quad\quad} + \underline{\quad\quad} \\
 \hline
 = \underline{\quad\quad} + \underline{\quad\quad} \\
 = \underline{\quad\quad}
 \end{array}$$

$$\begin{array}{r}
 4. \quad 16 = \underline{\quad\quad} + \underline{\quad\quad} \\
 + 31 = \underline{\quad\quad} + \underline{\quad\quad} \\
 \hline
 = \underline{\quad\quad} + \underline{\quad\quad} \\
 = \underline{\quad\quad}
 \end{array}$$

$$\begin{array}{r}
 5. \quad 65 = \underline{\quad\quad} + \underline{\quad\quad} \\
 + 33 = \underline{\quad\quad} + \underline{\quad\quad} \\
 \hline
 = \underline{\quad\quad} + \underline{\quad\quad} \\
 = \underline{\quad\quad}
 \end{array}$$

Challenge

Find the sum using the expanded form.

$$\begin{array}{r}
 1. \quad 57 = \underline{\quad\quad} + \underline{\quad\quad} \\
 + 31 = \underline{\quad\quad} + \underline{\quad\quad} \\
 \hline
 = \underline{\quad\quad} + \underline{\quad\quad} \\
 = \underline{\quad\quad}
 \end{array}$$

$$\begin{array}{r}
 2. \quad 85 = \underline{\quad\quad} + \underline{\quad\quad} \\
 + 12 = \underline{\quad\quad} + \underline{\quad\quad} \\
 \hline
 = \underline{\quad\quad} + \underline{\quad\quad} \\
 = \underline{\quad\quad}
 \end{array}$$

$$\begin{array}{r}
 3. \quad 84 = \underline{\quad\quad} + \underline{\quad\quad} \\
 + 15 = \underline{\quad\quad} + \underline{\quad\quad} \\
 \hline
 = \underline{\quad\quad} + \underline{\quad\quad} \\
 = \underline{\quad\quad}
 \end{array}$$

$$\begin{array}{r}
 4. \quad 62 = \underline{\quad\quad} + \underline{\quad\quad} \\
 + 37 = \underline{\quad\quad} + \underline{\quad\quad} \\
 \hline
 = \underline{\quad\quad} + \underline{\quad\quad} \\
 = \underline{\quad\quad}
 \end{array}$$

$$\begin{array}{r}
 5. \quad 65 = \underline{\quad\quad} + \underline{\quad\quad} \\
 + 33 = \underline{\quad\quad} + \underline{\quad\quad} \\
 \hline
 = \underline{\quad\quad} + \underline{\quad\quad} \\
 = \underline{\quad\quad}
 \end{array}$$

F. Sanggunian

Gureng, Paulino T, Noel M. Menor, Maria Cecelia J. Sanvictores. 2020. *Realostic Math Scaling Greater Heights*. Quezon City: Sibs Publishing House Inc.

Answers Key

Mathematics 1

Quarter 2 – Module 8: Adding Numbers by Expressing Addends as Tens and Ones (Expanded Form)

A. Ating Balikan

1. 3 tens, 9 ones
2. 2 tens, 4 ones
3. 8 tens, 4 ones
4. 8 tens, 8 ones
5. 1 tens, 5 ones

B. Ano'ng Bago

1. Ilan lahat ang sako ng bigas ang ipinamahagi ng dalawang sector?
2. 44 at 55
3. Ilan lahat
4. Addition o Pagdaragdag
5. $44 + 55 = 99$

D. Ating Subukin

1. $50 + 6$
 $\underline{10 + 1}$
 $= 60 + 7$
 $= 67$
2. $30 + 3$
 $\underline{20 + 5}$
 $= 50 + 8$
 $= 58$
3. $40 + 4$
 $\underline{20 + 1}$
 $= 60 + 5$
 $= 65$
4. $40 + 3$
 $\underline{20 + 6}$
 $= 60 + 9$
 $= 69$

5. $20 + 7$
 $\underline{70 + 1}$
 $= 90 + 8$
 $= 98$

E. Tayahin Natin

1. $80 + 4$
 $\underline{10 + 4}$
 $= 90 + 8$
 $= 98$
2. $20 + 2$
 $\underline{50 + 7}$
 $= 70 + 9$
 $= 79$
3. $20 + 4$
 $\underline{40 + 1}$
 $= 60 + 5$
 $= 65$

4. $10 + 6$
 $\underline{30 + 1}$
 $= 40 + 7$

5. $60 + 5$
 $\underline{30 + 3}$
 $= 90 + 8$
 $= 98$

Challenge

1. $50 + 7$
 $\underline{30 + 1}$
 $= 80 + 8$
 $= 88$

2. $80 + 5$
 $\underline{10 + 2}$
 $= 90 + 7$
 $= 97$

3. $80 + 4$
 $\underline{10 + 5}$
 $= 90 + 9$
 $= 99$

DISCLAIMER

This Microlearning Module has been developed by DepEd - Division of Sultan Kudarat for educational purposes only. It is designed to supplement classroom instruction and should not be used as the sole source of information. Teachers are encouraged to exercise their professional discretion and tailor the content to suit their students' individual needs.

This resource is the exclusive property of DepEd-Division of Sultan Kudarat and is accessible to enrolled learners solely for academic purposes, at no cost. Any reproduction or conversion of this material in any form is strictly prohibited.

REGION XII - DIVISION OF SULTAN KUDARAT