3

DepED
DEPARTMENT OF EDUCATION

Mathematics

Quarter 1 – Module 11(a): Adding Mentally 2-digit and 1-digit Numbers

ALTERNATIVE DELIVERY MODE
ADM

Mathematics – Grade 3
Alternative Delivery Mode
Quarter 1 – Module 11(a): Adding Mentally 2-digit and 1-digit Numbers
First Edition, 2020

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

Development Team of the Module

Author: Bernadette T. Carillo

Editors: Arnel S. Zaragosa, Jeremias C. Ceniza, Gina F. Silvestre, Ph.D., Elma C. Prudente, Annie Fel Lingatong, Edgardo Dondon S. Lorenzo, Ailyn V. Ponce

Reviewers: Helen C. Ugay, Divilyn M. Rodriguez, Edgardo Pamugas III

Illustrators: Dennis Macaubos, Alfie Valenteros, Christian Loyd Alfuerto, Pit Ybanez

Layout Artist:

Management Team: Evelyn R. Fetalvero, Janette G. Veloso, Analiza C. Almazan, Ma. Cielo D. Estrada, Renato N. Pacpakin, Alona C. Uy, Maria Gina F. Flores, Arnel S. Zaragosa, Jeremias C. Ceniza, Illuminado T. Boiser

Printed in the Philippines by _____

Department of Education – Region XI

Office Address: F. Torres St., Davao City

Telefax: (082) 291-1665; (082) 221-6147

E-mail Address: region11@deped.gov.ph * lrms.regionxi@deped.gov.ph

3

Mathematics

Quarter 1 – Module 11(a): Adding Mentally 2-digit and 1-digit Numbers

DepED
DEPARTMENT OF EDUCATION

Introductory Message

For the facilitator:

Welcome to the Mathematics Grade 3 Alternative Delivery Mode (ADM) Module on **Adding mentally 2-digit and 1-digit Numbers**!

This module was collaboratively designed, developed and reviewed by educators both from public and private institutions to assist you, the teacher or facilitator in helping the learners meet the standards set by the K to 12 Curriculum while overcoming their personal, social, and economic constraints in schooling.

This learning resource hopes to engage the learners into guided and independent learning activities at their own pace and time. Furthermore, this also aims to help learners acquire the needed 21st century skills while taking into consideration their needs and circumstances.

As a facilitator, you are expected to orient the learners on how to use this module. You also need to keep track of the learners' progress while allowing them to manage their own learning. Furthermore, you are expected to encourage and assist the learners as they do the tasks included in the module.

For the learner:

Welcome to the Mathematics Grade 3 Alternative Delivery Mode (ADM) Module on **Adding mentally 2-digit and 1-digit Numbers**!

This module was designed to provide you with fun and meaningful opportunities for guided and independent learning at your own pace and time. It was made easy for you to process the contents of the learning resource while being an active learner.

This module has the following parts and corresponding icons:

What I Need to Know

This will give you an idea of the skills or competencies you are expected to learn in the module.

What I Know

This part includes an activity that aims to check what you already know about the lesson to take. If you get all the answers correct (100%), you may decide to skip this module.

What's In

This is a brief drill or review to help you link the current lesson with the previous one.

What's New

In this portion, the new lesson will be introduced to you in various ways such as a story, a song, a poem, a problem opener, an activity or a situation.

What is It

This section provides a brief discussion of the lesson. This aims to help you discover and understand new concepts and skills.

 *What's More*	This comprises activities for independent practice to solidify your understanding and skills of the topic. You may check the answers to the exercises using the Answer Key at the end of the module.
 *What I Have Learned*	This includes questions or blank sentence/paragraph to be filled in to process what you learned from the lesson.
 *What I Can Do*	This section provides an activity which will help you transfer your new knowledge or skill into real life situations or concerns.
 *Assessment*	This is a task which aims to evaluate your level of mastery in achieving the learning competency.
 *Additional Activities*	In this portion, another activity will be given to you to enrich your knowledge or skill of the lesson learned.
 *Answer Key*	This contains answers to all activities in the module.

At the end of this module you will also find:

References	This is a list of all sources used in developing this module.

The following are some reminders in using this module:

1. Use the module with care. Do not put unnecessary mark/s on any part of the module. Use a separate sheet of paper in answering the exercises.
2. Don't forget to answer *What I Know* before moving on to the other activities included in the module.
3. Read the instruction carefully before doing each task.
4. Observe honesty and integrity in doing the tasks and checking your answers.
5. Finish the task at hand before proceeding to the next.
6. Return this module to your teacher/facilitator once you are through with it.

If you encounter any difficulty in answering the tasks in this module, do not hesitate to consult your teacher or facilitator. Always bear in mind that you are not alone.

We hope that through this material, you will experience meaningful learning and gain deep understanding of the relevant competencies. You can do it.

What I Need to Know

This module was designed and written with you in mind. It is here to help you master on adding mentally 2-digit and 1-digit numbers with or without regrouping using appropriate strategies. The scope of this module permits it to be used in many different learning situations. The language used recognizes your diverse vocabulary backgrounds. The lessons are arranged to follow the standard sequence of the course but the order in which you read them can be changed to correspond with the Mathematics Grade 3 learning materials you are using.

After going through this module, you are expected to:

1. Add mentally 2-digit and 1-digit numbers with or without regrouping using appropriate strategies (M3NS-Ie-28.7).

Enjoy your journey. Good luck!

What I Know

Read and analyze the questions. Choose the letter of the correct answer. Write the chosen letter on a separate sheet of paper.

1.What is the sum of 62 + 5?

a. 67 b. 37 c. 55 d. 70

2.What number is added to 56 to get 63?

a. 7 b. 4 c. 6 d. 5

3.If you add 29 and 5, you get a sum of _____.

a. 34 b. 43 c. 41 d. 36

4.Which addition can be performed without regrouping?

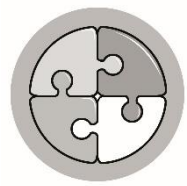
a. 13 + 8 b. 56 + 9 c. 17 + 7 d. 11 + 8

5. Which addition can be performed with regrouping?

a. 13 + 5 b. 56 + 3 c. 13 + 7 d. 11 + 2

Lesson	Adds mentally 2-digit and 1-digit number with or without regrouping using appropriate strategies

Most children like you enjoy playing mind games like number puzzle that applies mental addition. In this module, you will learn how to add mentally 2-digit and 1-digit numbers with or without regrouping using appropriate strategies.



What's In

When we say mental addition, this means that we will add numbers without writing the solution in the paper. Instead, we do the process of addition in our mind only.

To make mental addition easier, it is important to master the process of estimating sums which is taken in your previous lesson.

Let us take a short review.

Example: Estimate the sum of 68 + 72 + 23

Step 1 Round off the addends to the tens place.

68 $\longrightarrow$ 70, 72 $\longrightarrow$ 70, 23 $\longrightarrow$ 20

Step 2 Add the rounded off numbers.

$$\begin{array}{rr} & 70 \\ + & 70 \\ & \underline{20} \\ & 160 \end{array}$$

The estimated sum is **160.**

Activity 1

Estimate the sum of the following sets of addends.

1.) 58 + 36
2.) 16 + 66
3.) 29 + 49
4.) 18 + 68
5.) 77 + 11

What's New

The first step in estimating the sum you did in Activity 1 is to round off the 2-digit numbers to its nearest tens. Notice that when the addends are in numbers by ten, it makes addition easier.

Let us practice adding mentally involving numbers in tens.

Activity 2

Add mentally.

1. 10 + 9 = _____
2. 50 + 5 = _____
3. 3 + 90 = _____
4. 8 + 30 = _____
5. 70 + 7 = _____
6. 20 + 2 = _____
7. 80 + 4 = _____
8. 1 + 30 = _____
9. 6 + 40 = _____
10. 50 + 3 = _____

What is It

To add mentally 2-digit and 1-digit numbers, follow these simple steps:

Step 1. Expand the 2-digit addend into tens and ones mentally.

Step 2. Add mentally the tens and ones separately.

Step 3. If regrouping is necessary, expand the new addend into tens and ones and repeat step 2.

Example 1: Add mentally 63 + 5.

Solution:

Step 1. Expand the 2-digit addend.	60 + 3 + 5
Step 2. Add the tens and ones.	60 + 8
Step 3. Add.	68

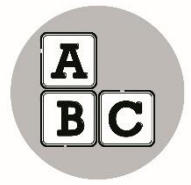
Answer: **63 + 5 = 68**

Example 2: Add mentally 78 + 9.

Solution:

Step 1. Expand the 2-digit addend.	70 + 8 + 9
Step 2. Add the tens and ones.	70 + 17 *(with grouping)*
Step 3. Expand the new addend.	70 + 10 + 7
Step 4. Add the tens and ones.	80 + 7

Answer: **78 + 9 = 87**



What's More

Find the sum mentally.

1.) 13 + 5 = ____	2.) 35 + 4 = ____	3.) 61 + 7 = ____	4.) 76 + 1 = ____	5.) 43 + 2 = ____
6.) 44 + 7 = ____	7.) 38 + 9 = ____	8.) 17 + 7 = ____	9.) 26 + 8 = ____	10.) 25 + 5 = ____

What I Have Learned

To add mentally 2-digit and 1-digit numbers, follow these simple steps:

Step 1. Expand the 2-digit addend into tens and ones mentally.

Step 2. Add mentally the tens and ones separately.

Step 3. If regrouping is necessary, expand the new addend into tens and ones and repeat step 2.

What I Can Do

Add mentally.

1.) 54 + 6 =

2.) 50 + 3 =

3.) 21 + 9 =

4.) 23 + 5 =

5.) 13 + 8 =

6.) 72 + 4 =

7.) 67 + 7 =

8.) 34 + 2 =

9.) 23 + 8 =

10.) 88 + 8 =

Assessment

Add mentally. Choose the letter of the correct answer. Write your answer on a separate sheet of paper.

1.) What is the sum of 23 and 8?
A. 13 B. 31 C. 238 D. 28

2.) What number is added to 56 to get 63?
A. 7 B. 4 C. 6 D. 5

3.) If you add 29 and 6 you get a sum of what number?
A. 53 B. 30 C. 35 D. 96

4.) Oscar gave Marlon 12 big marbles and 9 small marbles. How many marbles did Marlon received?
A. 12 B. 29 C. 21 D. 129

5.) Which of the following has a sum of 65?
A. 53 + 8 B. 56 + 9 C. 57 + 6 D. 55 + 7

Additional Activities

A. Add mentally.

1.) 45 + 5 = ____	3.) 31 + 9 = _____	5.) 12 + 7 =_____
2.) 24 + 7 = ____	4.) 22 + 5 = _____	6.) 35 + 6 = ____

B. Read and answer the problem mentally.

1.) What is the sum of 23 and 2 added to the sum of 24 and 7?

2.) The sum of 61 and 2 is added to 7. What is the answer?

3.) Rose reads 10 pages of a book. She reads 9 pages of the same book the next day. How many pages of books did she read in all?

4.) There are 15 boys and 9 girls enrolled in Grade 3. How many pupils are there in all?

5.) RB and Jansen are brothers. Both received a box of marbles from their mother as a reward for helping her clean the yard. RB counted 10 marbles in his box. Jansen counted 9 marbles. How many marbles do they have in all?

Answer Key

What I Know

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

What's In

1. 60 + 40 = 100
2. 20 + 70 = 90
3. 30 + 50 = 80
4. 20 + 70 = 90
5. 80 + 10 = 90

What's New

1. 19
2. 55
3. 93
4. 38
5. 77
6. 22
7. 84
8. 31
9. 46
10. 53

What's More

1. 18
2. 39
3. 68
4. 77
5. 45
6. 51
7. 47
8. 24
9. 34
10. 30

What I Can Do

1. 60
2. 53
3. 30
4. 28
5. 21
6. 76
7. 74
8. 36
9. 31
10. 96

Assessment

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

Additional Activity

A.		B.	
1.	50	1.	56
2.	31	2.	70
3.	40	3.	19
4.	27	4.	24
5.	19	5.	19
6.	41		

References

Tagle, Jadith M., etc.al… 2014. Realistic Math 3. Sibs Publishing House, Inc. pp.55-57.

Chingcuangco, Ofelia G. et.al. 2016 Mathematics 3 (Government Property.

For inquiries or feedback, please write or call:

Department of Education - Bureau of Learning Resources (DepEd-BLR)

Ground Floor, Bonifacio Bldg., DepEd Complex
Meralco Avenue, Pasig City, Philippines 1600

Telefax: (632) 8634-1072; 8634-1054; 8631-4985

Email Address: blr.lrqad@deped.gov.ph * blr.lrpd@deped.gov.ph