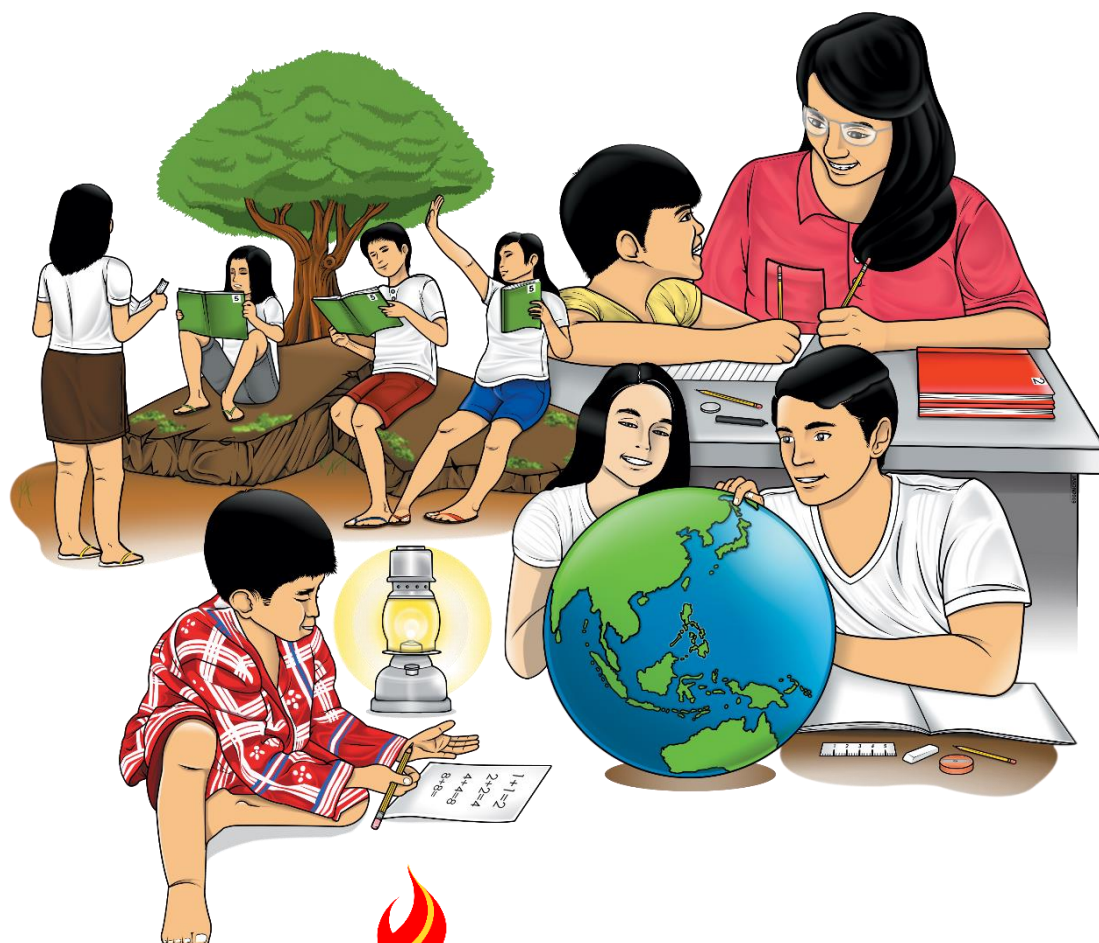


# Mathematics

Quarter 1 – Module 9:

Adds 3 to 4-Digit Numbers up to  
Three Addends



**Mathematics – Grade 3**  
**Alternative Delivery Mode**  
**Quarter 1 – Module 9: Adds 3 to 4-Digit Numbers up to Three Addends**  
**First Edition, 2020**

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

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**Printed in the Philippines by** \_\_\_\_\_

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# Mathematics

Quarter 1 – Module 9:  
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# Introductory Message

## For the facilitator:

Welcome to the Grade 3 Mathematics Alternative Delivery Mode (ADM) Module on **Addition of 3-to 4-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 in 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 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 Grade 3 Mathematics Alternative Delivery Mode (ADM) Module on **Addition of 3-to 4-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 short 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 new sentences/paragraphs to be filled in to process what you learned from the lesson.



### *What I Can Do*

This section provides an activity that will help you transfer your new knowledge or skill in 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 a 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 describing one's drawing about the narratives listened to through composition. 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. Identify the unifying ideas in adding 3-to 4-digit up to three addends with sums up to 10 000
2. Explain the steps in adding numbers with or without regrouping

Enjoy your journey. Good luck!





## *What I Know*

Choose the letter of the best answer. Write the chosen letter on a separate sheet of paper.

1. Which pair of addends have the least sum?

- |        |        |        |        |
|--------|--------|--------|--------|
| a. 234 | b. 123 | c. 543 | d. 814 |
| 568    | 654    | 768    | 357    |

2. Find the sum of 603 and 476.

- |          |          |          |          |
|----------|----------|----------|----------|
| a. 1 709 | b. 1 079 | c. 9 071 | d. 1 970 |
|----------|----------|----------|----------|

3. What is 1 327 more than 1 588?

- |          |          |          |          |
|----------|----------|----------|----------|
| a. 2 815 | b. 2 915 | c. 2 745 | d. 2 475 |
|----------|----------|----------|----------|

4. If you add 729 and 1 886, what is the total?

- |          |          |          |          |
|----------|----------|----------|----------|
| a. 2 615 | b. 3 625 | c. 2 695 | d. 8 615 |
|----------|----------|----------|----------|

5. What is 5 138 increased by 2 243?

- |          |         |          |          |
|----------|---------|----------|----------|
| a. 9 381 | b. 8831 | c. 7 381 | d. 6 318 |
|----------|---------|----------|----------|

## Lesson

# Adds 3 to 4-Digit Numbers Up to Three Addends with Sums Up to 10 000 With or Without Regrouping

What do you need to know about adding whole numbers with 3 to 4-digit addends? At first, you go and recall the place values, which are essential in identifying the placement of each digit. The place values: ones, tens, hundreds, and thousands, are needed to align the numbers that belong to their places.

Addition by regrouping is essential when a number in the place value is more significant than nine. When a number is two-digit, you need to carry over to the next higher place value.



## *What's In*

In your previous grades, you learned how to add simple numbers. For example, adding 2-digit numbers with two addends without regrouping,  $23 + 34 = ?$  Hence,

$$\begin{array}{r} 23 \text{ ----- addend} \\ + \underline{34} \text{ ----- addend} \\ 57 \text{ ----- sum} \end{array}$$

As you go further, you will be adding 3 to 4-digit numbers up to three addends, and reviewing your lessons in the past is very important.

Review: Arrange in the column and add.

1)  $43 + 26 =$

2)  $65 + 13 =$

3)  $25 + 44 =$

4)  $16 + 23 =$

5)  $23 + 15 =$



## What's New

### Adding 3 to 4-digit numbers with Three Addends

Observe and study the word problem:

- 1) John bought some fruits from Aling Nena's store. He chose mangoes, pineapples and bananas.

Below shows the fruits and their prices:

Fruits	Prices
Mangoes	₱ 740
Pineapples	₱ 1 090
Bananas	₱ 745

How much did John pay for the total price?

To get the total price, you need to place each number above the other so that the thousands, hundreds, tens, and one's places lined up.

**Remember:** We use **regroup** or **carry over** in addition, when the sum of the digits in the place value column is more significant than nine. Regroup means placing the number in the tens position of the amount on top of the other numbers in the next place value column to its left.

Now let us add the three prices using the following steps:

#### 1. Add the Ones.

$$\begin{array}{r} 740 \\ 1\ 090 \\ +\ 1\ 745 \\ \hline 5 \end{array}$$

**Note:**

We only regroup when the numbers you are adding are not in the furthestmost left column.

#### 2. Add the tens.

Regroup as needed.

$$\begin{array}{r} 1 \\ 740 \\ 1\ 090 \\ +\ 1\ 745 \\ \hline 75 \end{array}$$

#### 3. Add the hundreds.

Regroup as needed.

$$\begin{array}{r} 1\ 1 \\ 740 \\ 1\ 090 \\ +\ 1\ 745 \\ \hline 575 \end{array}$$

Total price paid by John

#### 4. Add the thousands.

$$\begin{array}{r} 1\ 1 \\ 740 \\ 1\ 090 \\ +\ 1\ 745 \\ \hline 3\ 575 \end{array}$$



## *What is It*

In Mathematics, regrouping can be defined as the process of making groups of tens when carrying out operations. In adding 3 to 4-digit numbers with three addends, for instance,  $740 + 1090 + 1745$ , addends are arranged vertically in columns aligning the digits according to place values. Hence,

$$\begin{array}{r} 740 \\ 1\ 090 \\ + \ 1\ 745 \\ \hline \end{array}$$

It is done to arrange numbers that belong to their places, most likely ones, tens, hundreds, and thousands. After putting them in place, we will start adding from the one's column up to the thousands.

Thousands	Hundreds	Tens	Ones
	7	4	0
1	0	9	0
+ 1	7	4	5
<hr/>			

Study the following steps:

1. Add the ones. Th H T O

$$\begin{array}{rcccc} & & 7 & 4 & 0 \\ & 1 & 0 & 9 & 0 \\ + & 1 & 7 & 4 & 5 \\ \hline & & & & 5 \end{array}$$

0 ones + 0 one + 5 ones = 5 ones

2. Add the tens.    Th   H   T   O

$$\begin{array}{r}
 1 \\
 7 \quad 4 \quad 0 \\
 1 \quad 0 \quad 9 \quad 0 \\
 + 1 \quad 7 \quad 4 \quad 5 \\
 \hline
 7 \quad 5
 \end{array}$$

4 tens + 9 tens + 4 tens = 17 tens

**Regroup** tens.

17 tens = 1 hundreds 7 tens

3. Add the hundreds.

$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 1 \quad 1 \\
 7 \quad 4 \quad 0 \\
 1 \quad 0 \quad 9 \quad 0 \\
 + 1 \quad 7 \quad 4 \quad 5 \\
 \hline
 5 \quad 7 \quad 5
 \end{array}$$

1 hundreds + 7 hundreds + 0 hundreds +

7 hundreds = 15 hundreds

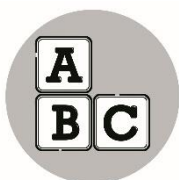
**Regroup** hundreds.

15 hundreds = 1 thousands 5 hundreds

4. Add the thousands.

$$\begin{array}{r}
 \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\
 1 \quad 1 \\
 7 \quad 4 \quad 0 \\
 1 \quad 0 \quad 9 \quad 0 \\
 + 1 \quad 7 \quad 4 \quad 5 \\
 \hline
 3 \quad 5 \quad 7 \quad 5
 \end{array}$$

Therefore,  $740 + 1\,090 + 1\,745 = 3\,575$



## What's More

### Activity

Add the given addends in each number. Use regrouping if needed.

$$\begin{array}{r} 1) \quad 1\,323 \\ + 2\,113 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 2\,231 \\ + \quad 113 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 2\,004 \\ \quad 1\,323 \\ + 2\,432 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 6\,105 \\ \quad \quad 222 \\ + \quad 400 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 2\,002 \\ \quad \quad 3\,125 \\ + \quad 2\,141 \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 6\,335 \\ \quad 2\,215 \\ + 1\,200 \\ \hline \end{array}$$

$$\begin{array}{r} 7) \quad 3\,635 \\ + 2\,815 \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 4\,185 \\ + 2\,125 \\ \hline \end{array}$$

$$\begin{array}{r} 9) \quad 6\,261 \\ \quad 1\,563 \\ + 1\,224 \\ \hline \end{array}$$

$$\begin{array}{r} 10) \quad 2\,009 \\ + 1\,104 \\ \hline \end{array}$$



## *What I Have Learned*

Adding 3 to 4-digit numbers up to three addends involves the following steps:

1. Arrange the numbers in a vertical column so that the ones, tens, hundreds and thousands places are lined up;
2. Add the ones place;
3. Add the tens place;
4. Add the hundreds; and
5. Add the thousands place. Then place the answer below the line.

However, you have to regroup when the sum of numbers in the place value column is greater than nine.



## *What I Can Do*

Arrange the following numbers in a column and add.

- 1)  $3\,456 + 356 + 267$
- 2)  $5\,796 + 3\,271 + 564$
- 3)  $2\,876 + 1\,243 + 1\,265$
- 4)  $1\,009 + 2\,090 + 124$
- 5)  $1\,431 + 200 + 563$



## *Assessment*

Multiple Choice. Choose the letter of the correct answer.

1) Find the sum of 1 745, 2 353, and 4 234.

- a) 6 332                  b) 7 233                  c) 8 332                  d) 9 332

2) When 7 123 is added to 345 and 145, what is the sum?

- a) 7 613                  b) 6 614                  c) 3 462                  d) 4 215

3) Mike has bought 500 red balloons, 4 400 blue balloons, and 355 chocolates. How many balloons did he buy?

- a) 6 981                  b) 2 093                  c) 4 900                  d) 5 255

4) There are 4 334 gold, 1 245 silver, and 453 bronze won by the Philippines last SEA Games. What is the total number of medals?

- a) 6 032                  b) 5 302                  c) 4 032                  d) 3 932

5) What is the sum if 5 673, 1 863, and 2 341 are added?

- a) 5 778                  b) 7 787                  c) 8 877                  d) 9 877





## *Additional Activities*

Read and solve the following questions.

- 1) My mother bought me a dress worth ₱2 346, a pair of shoes worth ₱1 495, and a pair of trousers worth ₱2 456. How much will my mother pay?

a) ₱5 972      b) ₱6 297      c) ₱7 297      d) 8 279

- 2) These are the number of Scouters from Mati City contingents. Mati Central District – 500, Mati North District – 475, Mati South District – 348

What is the total number of Scouters from Mati City delegation?

a) 1 323      b) 2 323      c) 3 233      d) 4 223

- 3) Add 3 465, 2 564, and 3 723.

a) 9 752      b) 8 752      c) 6 725      d) 5 527

- 4) When 4 342 and 2 345 will be added to 1 216, what is the sum?

a) 7 803      b) 7 903      c) 9 803      d) 9 830

- 5) There are 3 323 girls, 3 422 boys, and 2 341 gays and lesbians in a particular high school. What is the total population of the school?

a) 7 860      b) 8 680      c) 9 068      d) 9 086



## Answer Key

<p>Additional Activity</p> <p>1. B 2. A 3. A 4. B 5. D</p>	<p>Assessment</p> <p>1. c 2. a 3. d 4. a 5. d</p>	<p>What I Can Do</p> <p>1. 4 079 2. 9 631 3. 5 384 4. 3 223 5. 2 194</p>
<p>What's More</p> <p>1. 3 436 2. 2 344 3. 5 759 4. 6 727 5. 7 268 6. 9 750 7. 6 450 8. 6 310 9. 9 048 10. 3 113</p>	<p>What's In</p> <p>1. 69 2. 78 3. 69 4. 39 5. 38</p>	<p>What I Know</p> <p>1. B 2. B 3. B 4. A 5. C</p>

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