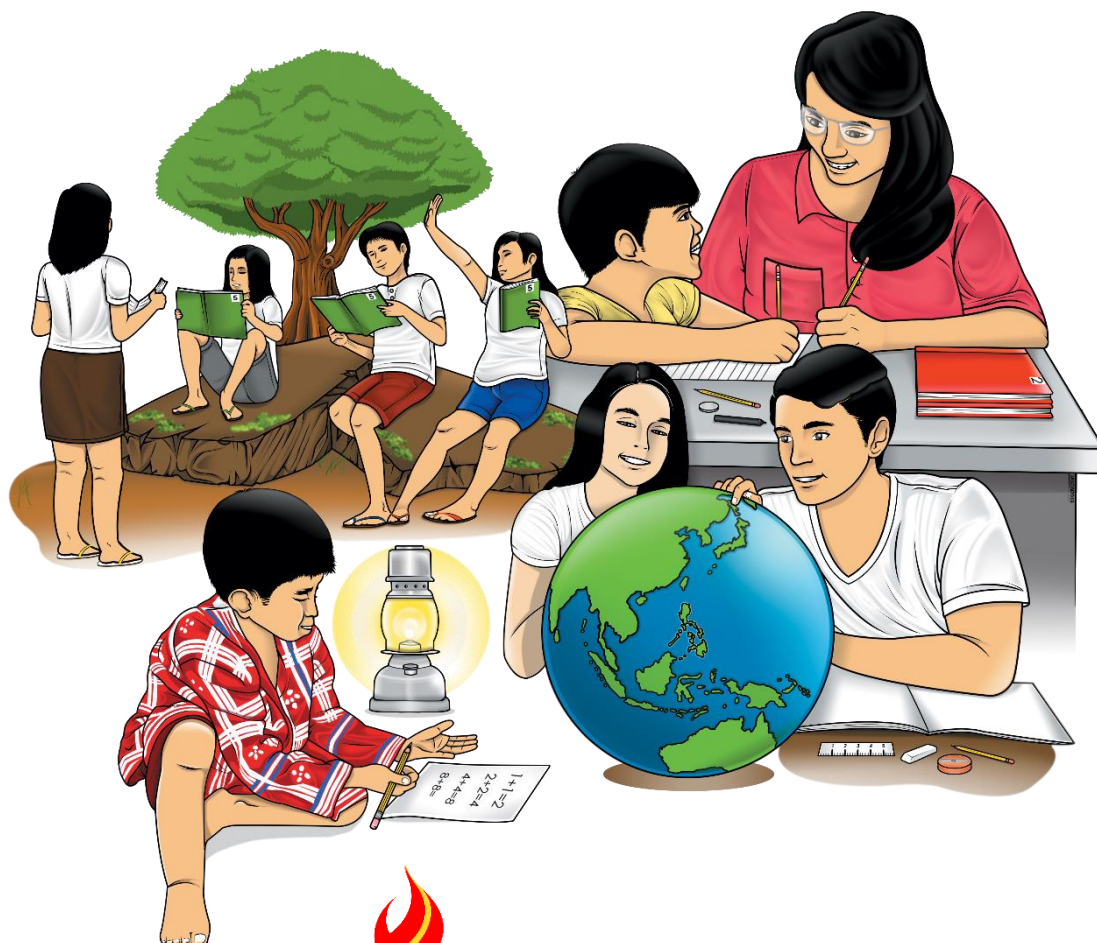


Mathematics

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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Mathematics

Quarter 1 – Module 9:
Adds 3 to 4-Digit Numbers
up to Three Addends

Introductory Message

This Self-Learning Module (SLM) is prepared so that you, our dear learners, can continue your studies and learn while at home. Activities, questions, directions, exercises, and discussions are carefully stated for you to understand each lesson.

Each SLM is composed of different parts. Each part shall guide you step-by-step as you discover and understand the lesson prepared for you.

Pre-tests are provided to measure your prior knowledge on lessons in each SLM. This will tell you if you need to proceed on completing this module or if you need to ask your facilitator or your teacher's assistance for better understanding of the lesson. At the end of each module, you need to answer the post-test to self-check your learning. Answer keys are provided for each activity and test. We trust that you will be honest in using these.

In addition to the material in the main text, Notes to the Teacher are also provided to our facilitators and parents for strategies and reminders on how they can best help you on your home-based learning.

Please use this module with care. Do not put unnecessary marks on any part of this SLM. Use a separate sheet of paper in answering the exercises and tests. And read the instructions carefully before performing each task.

If you have any questions in using this SLM or any difficulty in answering the tasks in this module, do not hesitate to consult your teacher or facilitator.

Thank you.



What I Need to Know

This module was designed and written with you in mind. It is here to help you master in 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 numbers up to three addends with sums up to 10 000 (**M3NS-Id-27.6**); and
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 sum?

- | | | | |
|----------|----------|----------|----------|
| 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,

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

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 are 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.

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

Note:

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

2. Add the tens.

Regroup as needed.

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

3. Add the hundreds.

Regroup as needed.

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

4. Add the thousands.

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

Total price paid by John **3 575**



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,

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

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

		7	4	0	0 ones + 0 one + 5 ones = 5 ones
	1	0	9	0	
+	1	7	4	5	
<hr/>					
				5	

2. Add the tens. Th H T O

$$\begin{array}{r} 1 \\ 740 \\ \hline \end{array}$$

tens

$$4 \text{ tens} + 9 \text{ tens} + 4 \text{ tens} = 17$$

$$\begin{array}{r} 1090 \\ + 1745 \\ \hline 75 \end{array}$$

Regroup tens.

$$17 \text{ tens} = 1 \text{ hundreds } 7 \text{ tens}$$

3. Add the hundreds.

$$\begin{array}{r} \text{Th H T O} \\ 11 \\ 740 \\ 1090 \\ + 1745 \\ \hline 575 \end{array}$$

$$1 \text{ hundreds} + 7 \text{ hundreds} + 0 \text{ hundreds} +$$

$$7 \text{ hundreds} = 15 \text{ hundreds}$$

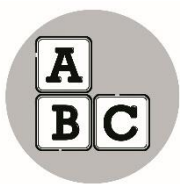
Regroup hundreds.

$$15 \text{ hundreds} = 1 \text{ thousands } 5 \text{ hundreds}$$

4. Add the thousands.

$$\begin{array}{r} \text{Th H T O} \\ 11 \\ 740 \\ 1090 \\ + 1745 \\ \hline 3575 \end{array}$$

$$\text{Therefore, } 740 + 1090 + 1745 = 3575$$



What's More

Activity

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

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

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

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

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

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

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

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

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

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

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



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

Additional Activity

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

Assessment

1. C
2. a
3. d
4. a
5. d

What I Can Do

1. 4 079
2. 9 631
3. 5 384
4. 3 223
5. 2 194

What's More

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

What's In

1. 69
2. 78
3. 69
4. 39
5. 38

What I Know

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

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