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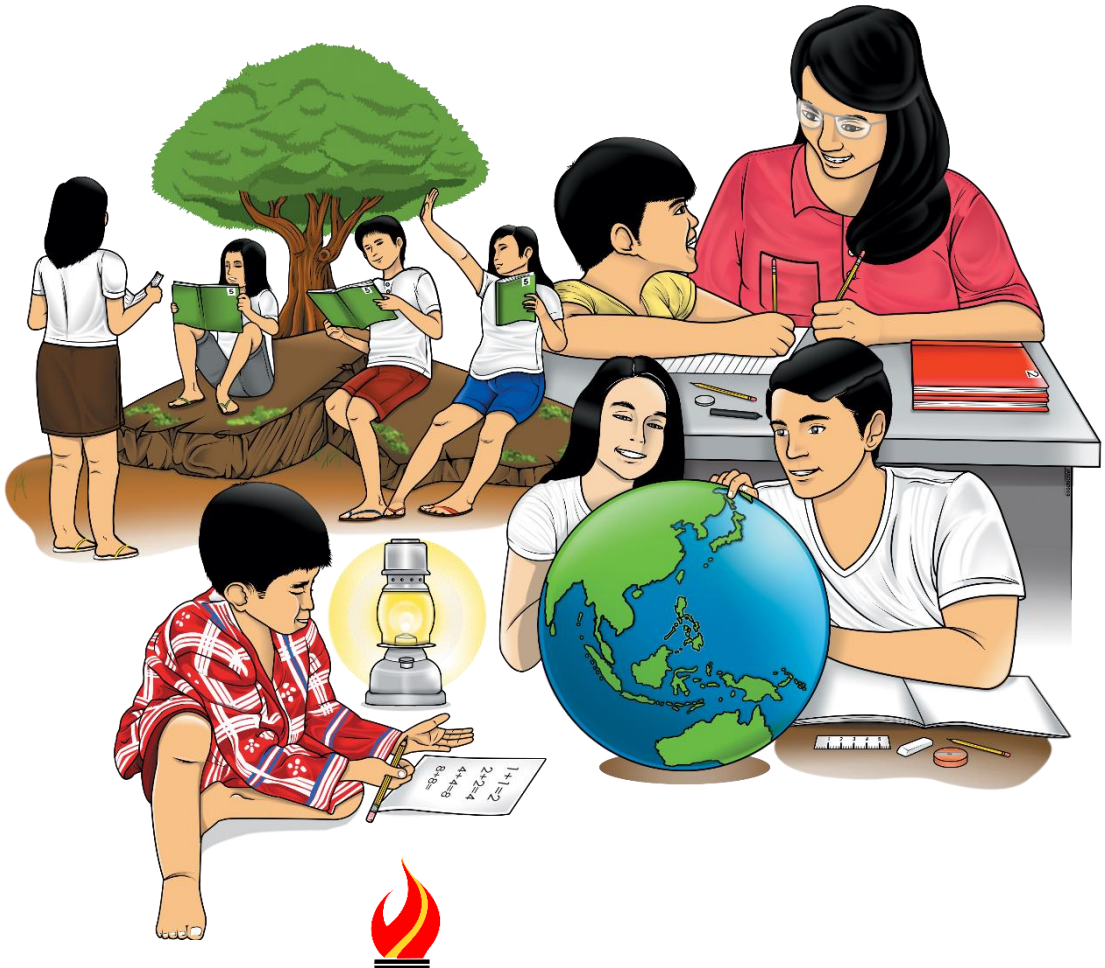
Mathematics

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



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

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Mathematics

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

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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 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 was 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 → 70, 72 → 70, 23 → 20

Step 2 Add the rounded off numbers.

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

The estimated sum is **160.**

Activity 1

Estimate the sum of the following sets of addends.

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

What's New

The first step in estimating the sum 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

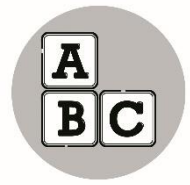
Answer: **63 + 5 = 68**

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 receive?
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 did 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.

1. 50
2. 31
3. 40
4. 27
5. 19
6. 41

B.

1. 56
2. 70
3. 19
4. 24
5. 19

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