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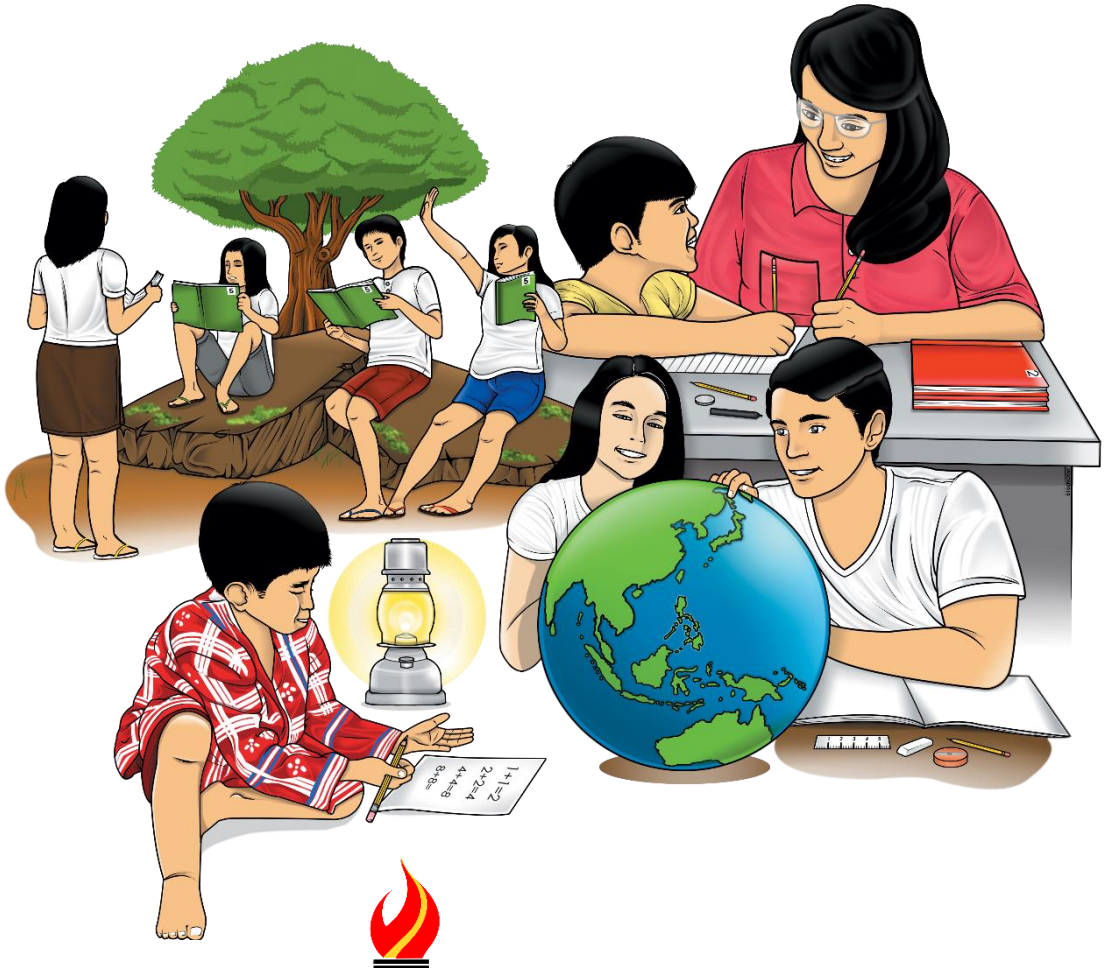
Mathematics

Quarter 1 – Module 11(b):
Adding Mentally 2-3 Digit Numbers



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Quarter 1 – Module 11(b): Adding Mentally 2-3 Digit Numbers
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Mathematics

Quarter 1 – Module 11(b):
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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 adding mentally 2–3-digit numbers with multiples of hundreds 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 2-3 digit numbers with multiples of hundreds using appropriate strategies (M3NS-Ie-28.8).

Enjoy your journey. Good luck!

What I Know

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

1. 43 + 26

2. 23 + 300

3. 500 + 300

4. 93 + 37

5. 500 + 600

a. 323

b. 69

c. 800

d. 1100

e. 130

Lesson Adds Mentally 2-3 Digit Numbers with Multiples of Hundreds

In our daily living, we use math, especially the four fundamental operations. Addition is one of the most used in our day- to- day experience. We sometimes go to supermarket bringing an estimated amount of money for payment. But the question is, do we need to bring paper and a pen or a calculator all the time to compute the total amount of things we need to buy? It is important that we can add mentally the prices we see. In this lesson, we will learn how to add mentally 2- to 3-digit numbers with multiples of hundreds.

What's In

Answer the following by filling in the blanks with the correct answer.

1. 20 + 60 + 8
   = 8 + ____
   = _____

2. 10 + 20 + 4 + 7
   = ____ + ____
   = _____

3. 2 + 60 + 80
   = 2 + ____
   = _____

4. 80 + 90 + 3 + 2
   = ___ + ___
   = _____

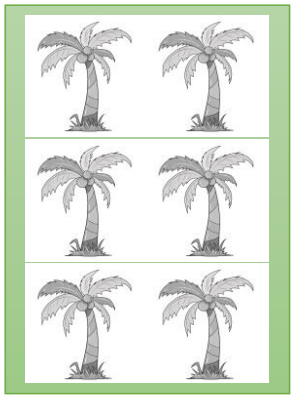
5. 10 + 30 + 5 + 4
   = ____+ ____
   = _____

What's New

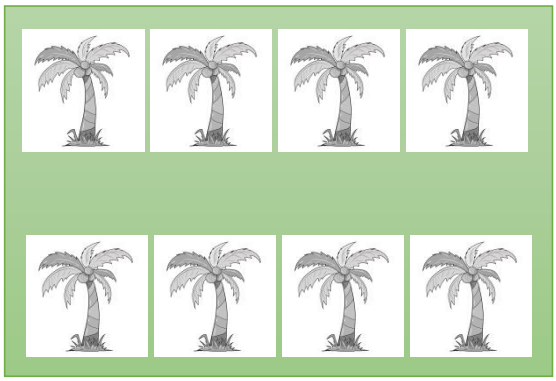
We learned in the previous lesson that in adding numbers mentally, it is easy to calculate when the addends are expanded to tens. In the example below let us try to add numbers in hundreds.

Problem:

Charles coconut plantation has two different locations, location A and location B. The illustration below shows the number of coconut trees in each location. How many coconut trees are planted in each location?



Location **A**



Location **B**

Legend:

1 coconut tree = 100

Location	Number of Coconut Trees
A	600
B	800
Total	?

Do you have any idea how to solve 3-digit numbers? If your answer is **1400** then you got the answer correctly. Can you find the total by adding it mentally?

What is It

Remember your knowledge of adding mentally 2-digit numbers to 1-digit number. The first step is to expand the 2-digit addend into tens and ones. This is because it is easy to add mentally numbers in its tens and ones.

To add 2-digit numbers mentally, we will apply the same strategy in which we will expand both addends to their tens and ones. Then, add tens and ones separately. This strategy will work in all addition with or without regrouping.

Example: Add mentally 24 + 59.

Solution:

Step 1. expand into tens and ones $24 = 20 + 4$
$59 = 50 + 9$

Step 2. add tens and ones separately

$24 + 59 = (20 + 4) + (50 + 9) = \underline{20 + 50} + \underline{4 + 9}$

$= 70 + 13$

Step 3. Add $= 83$

Answer: **24 + 59 = 83**

To add mentally 3-digit number with multiples of hundreds and 2-digit number, simply replace the two zeros of the number in hundreds with the 2-digit addend number.

Example: Add mentally 700 + 68.

Solution:

Step 1. Identify number in hundreds. 7<u>00</u>
Step 2. replace two zeros with the 2-digit number. 7<u>68</u>

Answer: **700 + 68 = 768.**

To add mentally two 3-digit numbers with multiples of hundreds, just add their corresponding digits starting from ones, tens then hundreds. The addition can be done mentally with ease since the process is without regrouping.

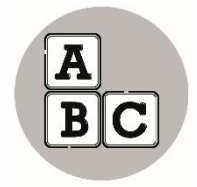
Example: Add mentally 900 + 893.

Solution:

Add the corresponding digits.

$$\begin{array}{r} 900 \\ +\ 893 \\ \hline 1793 \end{array}$$

Answer: **900 + 893 = 1 793.**



What's More

Find the sum mentally.

1.) 13 + 50

2.) 35 + 66

3.) 61 + 17

4.) 76 + 34

5.) 43 + 68

6.) 400 + 57

7.) 100 + 99

8.) 768 + 200

9.) 230 + 800

10.) 500 + 900

What I Have Learned

To add 2-digit numbers mentally, apply the same strategy in which you will expand both addends to their tens and ones. Then, add tens and ones separately.

To add mentally 3-digit number with multiples of hundreds and 2-digit number, simply replace the two zeros of the number in hundreds with the 2-digit addend number.

To add mentally two 3-digit numbers with multiples of hundreds, just add their nonzero digits then write two zeros to the right of the sum.

What I Can Do

Add mentally.

1.) 54 + 61 =

2.) 50 + 34 =

3.) 21 + 39 =

4.) 23 + 58 =

5.) 63 + 79 =

6.) 72 + 400 =

7.) 600 + 70 =

8.) 349 + 200 =

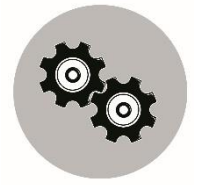
9.) 200 + 813 =

10.) 600 + 700 =

Assessment

Add mentally. Write your answer on the space provided.

1. 10 + 90	2. 100 + 805	3. 56 + 80	4. 26 + 20	5. 72 + 35
6. 657 + 500	7. 700 + 93	8. 87 + 96	9. 88 + 37	10. 700 + 500



Additional Activities

Word Problem

Solve the problem mentally. Write the correct answer on a separate sheet.

1. There are 500 men and 469 women working in the supermarket. How many people are working in the supermarket altogether?

2. There are 34 English books, 48 Filipino books, and 100 MTB books in the school library.

   a. How many English and MTB books are there in the school library?
   b. How many Filipino and English books are there?
   c. How many Filipino and MTB books altogether?

Answer Key

What I Know

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

What's In

1. 8 + 80 = 88
2. 30 + 11 = 41
3. 2 + 140 = 142
4. 170 + 5 = 175
5. 40 + 9 = 49

What's More

1. 63
2. 101
3. 77
4. 110
5. 111
6. 457
7. 199
8. 968
9. 1 030
10. 1 400

What I Can Do

1. 115
2. 84
3. 60
4. 81
5. 142
6. 472
7. 670
8. 549
9. 1 013
10. 1 300

Assessment

1. 100
2. 905
3. 136
4. 46
5. 107
6. 1 157
7. 793
8. 183
9. 125
10. 1 200

Additional Activity

1. 969
2. a. 134
   b. 82
   c. 148

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