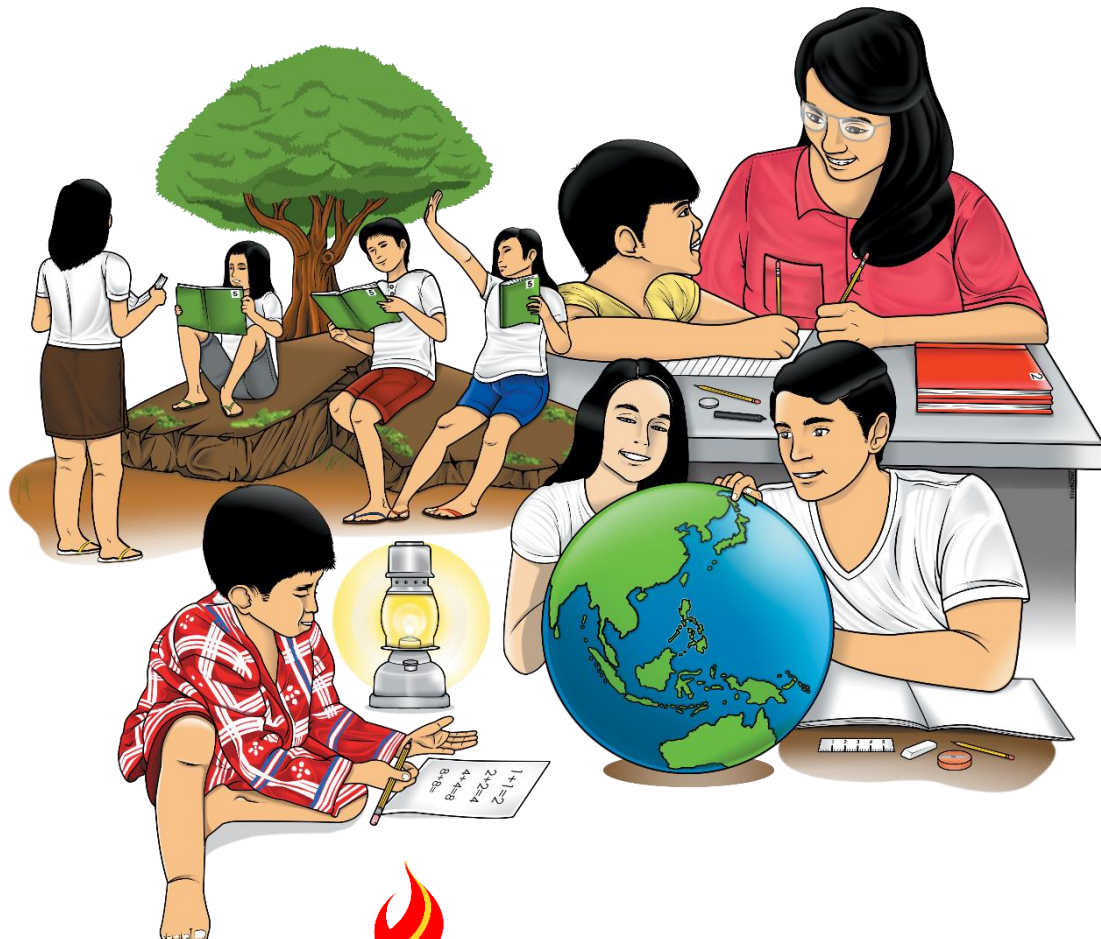


Mathematics

Quarter 1 – Module 4:

Rounding Numbers to the Nearest
Tens, Hundreds, and Thousands



Mathematics – Grade 3
Alternative Delivery Mode
Quarter 1 – Module 4: Rounding Numbers to the Nearest Tens,
Hundreds, and Thousands
First Edition, 2020

Republic Act 8293, section 176 states that: No copyright shall subsist in any work of the Government of the Philippines. However, prior approval of the government agency or office wherein the work is created shall be necessary for exploitation of such work for profit. Such agency or office may, among other things, impose as a condition the payment of royalties.

Borrowed materials (i.e., songs, stories, poems, pictures, photos, brand names, trademarks, etc.) included in this module are owned by their respective copyright holders. Every effort has been exerted to locate and seek permission to use these materials from their respective copyright owners. The publisher and authors do not represent nor claim ownership over them.

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

Development Team of the Module

Author: Guilerma T. Gutierrez

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, Evelyn P. Lucas, Alemer O. Veloso, Hazel G. Basa,
Anne R. Carillo, Menard M. Arenas

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

Layout Artist: Menard M. Arenas

Management Team: Allan G. Farnazo

Alona C. Uy

Mary Jeanne B. Aldeguer

Maria Gina F. Flores

Analiza C. Almazan

Arnel S. Zaragosa

Ma. Cielo D. Estrada

Jeremias C. Ceniza

Maria Liza I. Berandoy

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

Mathematics

Quarter 1 – Module 4:
Rounding Numbers to the Nearest
Tens, Hundreds, and Thousands

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 to help you comprehend rounding numbers. 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 round numbers to the nearest tens, hundreds, and thousands (M3NS -Ib -15.1).

Enjoy your journey. Good luck!



1. If 2 655 is rounded to the nearest tens, what is the answer?

2. If 74 is rounded to the nearest tens, what is the number?

3. If 95 847 is rounded to the nearest hundreds, what is the number?

4. If 10 593 is rounded to the nearest thousands, what is it?

5. What is the answer, if 5 500 is rounded to the nearest thousands?

- CO_Q1_Mathematics 3_ Module 4**

Lesson

Rounds Numbers to the Nearest Tens, Hundreds, and Thousands

Rounding off numbers is one way of making estimates. There is no need for us to give the exact number. Instead, we just approximate or estimate how many people or things are there. Estimating or rounding off numbers is important in visualizing the number of objects or people because it is easy to picture out an amount or value when expressed in exact tens, hundreds, and thousands.

In this lesson, you will know how to round off numbers to the nearest tens, hundreds, and thousands.



What's In

Let us try to activate what you have learned from the previous lesson by answering the activity below.

Give the place value of the underlined digit.

1. 647 _____
2. 518 _____
3. 7 493 _____
4. 2 659 _____
5. 8 3 14 _____



Notes to the Teacher

Activate the knowledge of learners in determining the place value from 1-4-digit numbers. Provide some activities on determining place value of numbers.



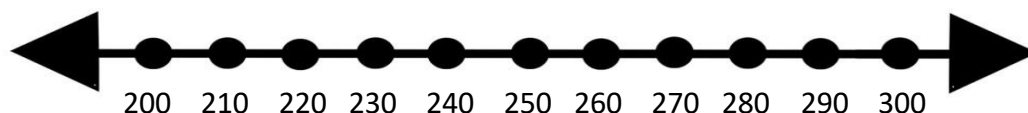
What's New

Activity 1

A. Study the number line. Read the number labels.



1. Find the point for number 14. In which tens is 14 closer to? 10 or 20? ____



2. In which hundreds is 260 nearer, 200 or 300? ____

B. Round off the following numbers to the indicated place value.

- | | | |
|----------------------|-------------------|-------|
| 1. 857 (tens) | = 850 or 860? | _____ |
| 2. 736 (hundreds) | = 700 or 800? | _____ |
| 3. 5 548 (thousands) | = 5 000 or 6 000? | _____ |

Can you find the connection between the position of numbers in a number line and rounding off numbers? Did you find it difficult in answering the items in B? No worries. As you go along with this module, you will learn the steps in rounding off numbers.



What is It

To round off numbers, follow these steps:

1. Know the place value of the digit to be rounded off.
2. Check the digit to its right.
3. If the digit to its right is 4 or below, retain the digit to be rounded off. If it is 5 or above, add 1 to the digit to be rounded off.
4. Change all the digits to the right of the digit to be rounded off to 0.

Let us go back to item no. 1 in Activity 1. Using the number line, when we round off 14 to the nearest tens, the answer is 10 since 14 is nearest to 10 than 20.

Applying the rules in rounding off:

Step 1: The digit to be rounded off is 1 since it is in the tens place.

Step 2: The digit to its right is 4.

Step 3: 4 is below 5. So, we will retain 1.

Step 4: Change all the digits to the right of 1 to 0.

Answer: **10**

If your answer in item no. 2 of Activity 1 is 300, then you are correct. It is clear on the number line that 260 is nearer to 300 than 200.

Now, let us apply the rules in rounding off.

Step 1: The digit to be rounded off is 2. It is in the hundreds place.

Step 2: The digit to its right is 6.

Step 3: 6 is above 5. So, we add 1 to 2. $2 + 1 = 3$.

Step 4: Change all the digits to its right to 0.

Answer: **300**

More Examples:

Let us now apply the rules of rounding off numbers in answering the items of Activity 1 (B) of page 5. You can check your previous answers as we go along with its solution.

1. Round off 857 to the nearest tens.

Step 1: 8 5 7 The digit to be rounded off is **5** as underlined

Step 2: 8 5 7 The digit to its right is **7**.

Step 3: 8 6 _ 7 is above 5. So, $5 + 1 = 6$.

Step 4: 8 6 0 Change all the digits to its right to 0.

Answer: **860**

2. Round off 736 to the nearest hundreds.

Step 1: 7 3 6 The digit to be rounded off is **7** as underlined

Step 2: 7 3 6 The digit to its right is **3**.

Step 3: 7 _ _ 3 is below 5. So, retain **7**.

Step 4: 7 0 0 Change all the digits to its right to 0.

Answer: **700**

3. Round off 5 548 to the nearest thousands.

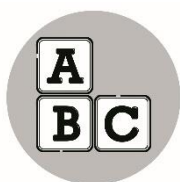
Step 1: 5 548 The digit to be rounded off is **5** as underlined

Step 2: 5 548 The digit to its right is also **5**.

Step 3: 6 _ _ _ Since it is 5. So, $5 + 1 = 6$.

Step 4: 6 0 0 0 Change all the digits to its right to 0.

Answer: **6 000**



What's More

Activity 2

Round these numbers to the nearest: tens, hundreds, and thousands.

75 705

1. tens _____
2. hundreds _____
3. thousands _____

Two thousand, five hundred twenty-three

4. thousands _____
5. hundreds _____

Activity 3

Round off the given numbers to the place value of the underlined digit.

1. 948 _____
2. 753 _____
3. 52 083 _____
4. Six thousand, four hundred twenty-five
(number in words) _____
5. Eight thousand ninety-six
(number in words) _____



What I Have Learned

To round off numbers:

1. Know the place value of the digit to be rounded off.
2. Check the digit to its right.
3. If the digit to its right is below 5, retain the digit to be rounded off. If it is 5 or above, add 1 to the digit to be rounded off.
4. Change all the digits to the right of the digit to be rounded off to 0.



What I Can Do

Activity 4

Uncle Ben spent his vacation in Mati City for 155 days.
Rounded to the nearest tens, about how many days did Uncle Ben spend his vacation in Mati City?

Follow the rules in rounding off numbers.

Step 1: The digit to be rounded off is _____.

Step 2: The digit to its right is _____.

Step 3: Is the digit in step 2; below, equal or above 5? _____
Add 1 or retain? _____

Step 4: Answer: _____

Answer: Uncle Ben spent _____ days of his vacation in
Mati City.



- When 649 is rounded to the nearest tens, what is the number?
 - 600
 - 650
 - 680
 - 700
- What is the answer, if 15 805 is rounded to the nearest hundreds?
 - 15 000
 - 15 800
 - 15 900
 - 16 000
- If 5 789 is rounded to the nearest thousands, what is the number?
 - 5 000
 - 5 700
 - 5 800
 - 6 000
- When 8 327 is rounded to the nearest hundreds, what is the number?
 - 9 000
 - 8 400
 - 8 300
 - 8 000
- When 97 248 is to the nearest thousands, what is the number?
 - 98 000
 - 97 300
 - 97 200
 - 97 000



Additional Activities

Activity 5

Round the following numbers to the nearest: tens, hundreds, and thousands.

Given	Tens	Hundreds	Thousands
1. 7 815			
2. 5 274			



Answer Key

<p>Additional Activity</p> <p>1. 7 820---7 800---8 000</p> <p>2. 5 270---5 300---5 000</p>	<p>Assessment</p> <p>1. b</p> <p>2. b</p> <p>3. d</p> <p>4. c</p> <p>5. d</p>	<p>What I Can Do</p> <p>Act.4</p> <p>Uncle spent 160 days of his vacation in Mati City</p>
<p>What's More</p> <p>Activity 2</p> <p>1. 75 710</p> <p>2. 75 700</p> <p>3. 76 000</p> <p>4. 3 000</p> <p>5. 2 500</p> <p>Activity 3</p> <p>1. 950</p> <p>2. 800</p> <p>3. 52 000</p> <p>4. Six thousand, four hundred</p> <p>5. Eight thousand</p>	<p>What's In</p> <p>1. tens</p> <p>2. hundreds</p> <p>3. thousands</p> <p>4. thousands</p> <p>5. hundreds</p> <p>What's New</p> <p>1. 10</p> <p>2. 300</p> <p>3. 860</p> <p>4. 700</p> <p>5. 6 000</p>	<p>What I Know</p> <p>1. b</p> <p>2. d</p> <p>3. a</p> <p>4. b</p> <p>5. c</p>

References

K to 12 English Curriculum Guide May 2016. Department of Education. DepEd Complex, Meralco Ave., 1600 Pasig City, Philippines.

Chingcuangco, Ofelia G., Henry P. Contemplacion, Eleanor I. Flores, Laura N. Gonzaga, Carolina O. Guevara, Robesa R. Hilario, Gerlie M. Ilagan, Maritess S. Patacsil, Ma. Corazon C. Silvestre, Remylinda T. Soriano, Victoria C. Tafalla, Teresita P. Tagulao, and Dominador J. Villafria. *Mathematics 3 Teachers Guide*. Rex Bookstore, Inc. 2015.

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.lrqaad@deped.gov.ph * blr.lrp@deped.gov.ph