

# 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**

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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 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!



## *What I Know*

Read each item carefully. Write the letter of the correct answer on a separate sheet of paper.

## 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. 8 314 \_\_\_\_\_



### *Notes to the Teacher*

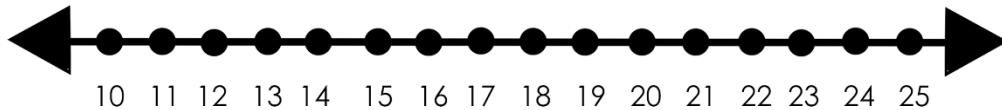
Activate the knowledge of learners in determining the place value from 1-4-digit numbers. Provide some activities on determining place value of numbers.



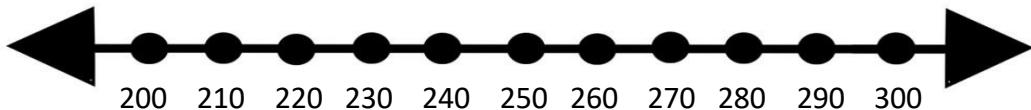
### *What's New*

#### **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.

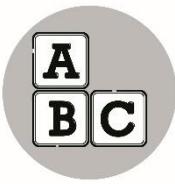
**Step 1:** 7 3 6    The digit to be rounded off is **7** as underlined  
**Step 2:** 7 3 6    The digit to its right is **3**.  
**Step 3:** 7 \_ \_    3 is below 5. So, retain **7**.  
**Step 4:** 7 0 0    Change all the digits to its right to 0.

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.



## *Assessment*

Multiple Choice. Choose the letter of the correct answer. Write the chosen letter on a separate sheet of paper.



## *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

<h3>What I Know</h3> <p>Activity 2</p> <p>1. 75 710 2. 75 700 3. 76 000 4. 3 000 5. 2 500</p> <p>Activity 3</p> <p>1. 950 2. 800 3. 52 000 4. 10 5. 6 000</p> <p>What's New</p> <p>1. 10 2. 300 3. 860 4. 700 5. Eight thousand</p>	<h3>What's In</h3> <p>Activity 2</p> <p>1. tens 2. hundreds 3. thousands 4. thousands 5. hundreds</p> <p>Activity 3</p> <p>1. a 2. b 3. c 4. d 5. e</p>	<h3>What I Can Do</h3> <p>Additional Activity</p> <p>1. 7 820---7 800---8 000 2. 5 270---5 300---5 000</p> <p>Act.4</p> <p>Unclie spent 160 days of his vacation in Mati City</p> <p>5. d 4. c 3. d 2. b 1. b</p>
<h3>Assessment</h3> <p>1. b 2. b 3. d 4. c 5. d</p>		

## References

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