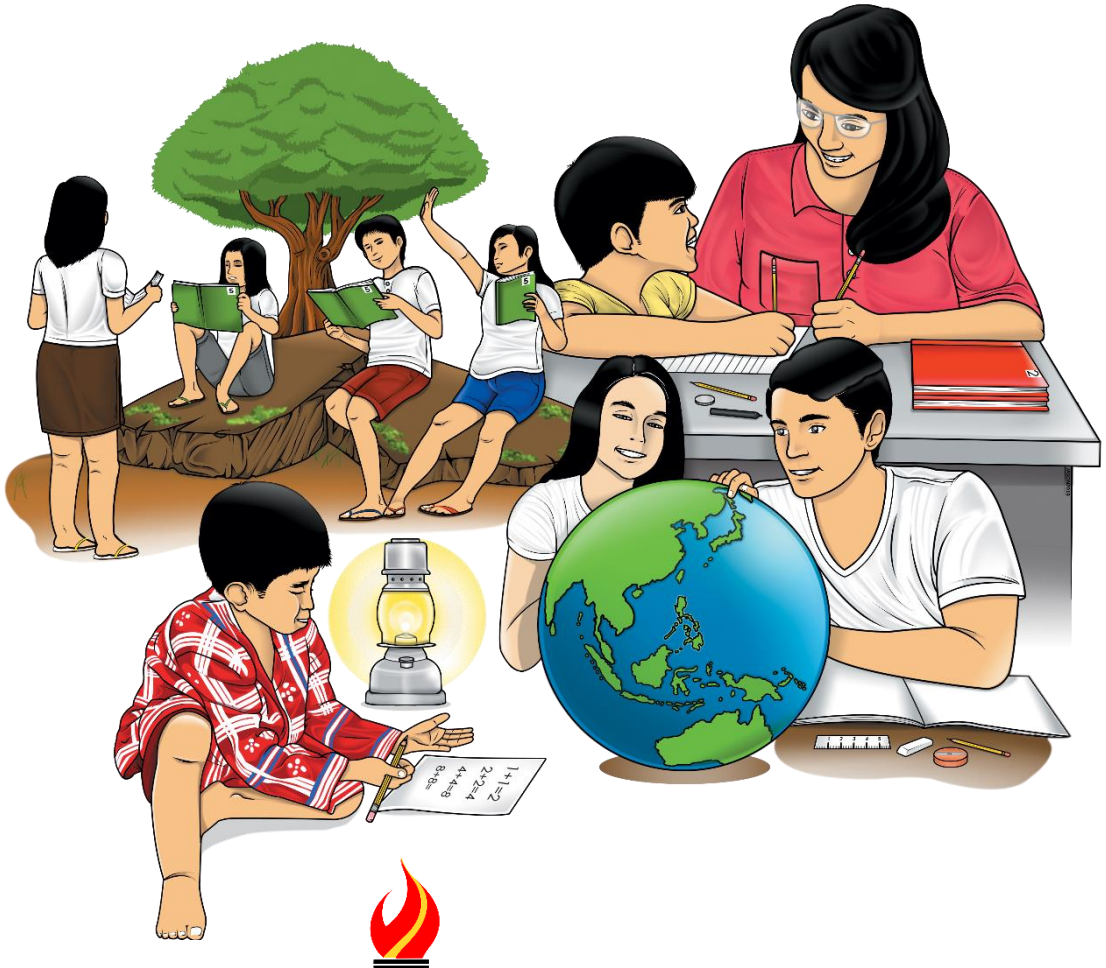
3

DepED
DEPARTMENT OF EDUCATION

Mathematics

Quarter 1 – Module 5(a):

Comparing Numbers up to 10 000 Using Relation Symbols



ALTERNATIVE DELIVERY MODE
ADM

GOVERNMENT PROPERTY
NOT FOR SALE

Mathematics – Grade 3
Alternative Delivery Mode
Quarter 1 – Module 5 (a): Comparing Numbers up to 10 000 Using Relation Symbols
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: Ivy Pearl F. Paeta

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, Exelsis Deo A. Deloy, Angelica M. Mendoza
Dominador N. Golez, Jr., Lourdes May B. Mendoza, Ana Lorma A. Dahiroc

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

Layout Artist:

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

3

Mathematics

Quarter 1 – Module 5(a):
Comparing Numbers up to 10 000 Using Relation Symbols

DepED
DEPARTMENT OF EDUCATION

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

In this lesson, the mastery of reading and writing numbers and the use of number line is very important. The concept of more than and less than also plays a vital role in accomplishing activities in this lesson. Always remember that in comparing numbers you need to use the concept of more and less than as well as equal to. In this lesson you will be learning how to compare numbers up to 10 000 using relation symbols such as greater than, less than and equal to.

After going through this module, you are expected to:

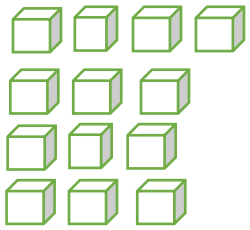
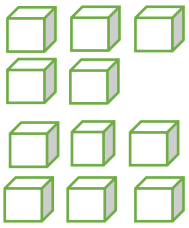
1. Compare numbers up to 10 000 using relation symbols **(M3NS- Ib-12.3)**.

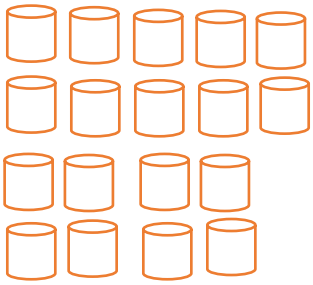
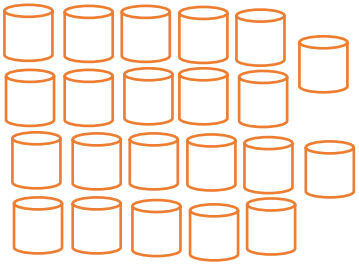
Enjoy your journey. Good luck!

What I Know

Study the objects below. If the objects in Column A have greater count than the objects in Column B, write the word **more than** in the box. Otherwise, write **less than**.

Column A Column B

1.  ____ 

2.  ____ 

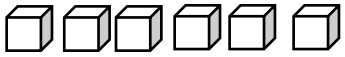
3. ____

Lesson	Compares Numbers up to 10 000 Using Relation Symbols

Look at the pictures below and count each set of objects. Can you tell which has the most number? the least?

Bag -

Pen -

Box - 

What's In

Activity 1

Write the missing number in each sequence by filling the blanks. Write your answers on a separate sheet of paper.

1. 896, _____, 898, _____, 900, _____, 902, _____, 904

2. 1 001, _____, 1 003, _____, 1 005, _____, 1 007, _____

3. 5 133, _____, 5 135, _____, 5 137, _____, 5 139, _____

What's New

Esther is fond of collecting different plant leaves. One day she went to a garden and collected 3 different plant leaves. She counted all the leaves she collected and tallied it on a chart. What leaves have the most number? The least?

Let us compare the numbers using their place value.

Leaves	Numbers	Place Value			
		Thousands	Hundreds	Tens	Ones
A	2 165	2	1	6	5
B	6 103	6	1	0	3
C	6 100	6	1	0	0

Look at the chart.

Can you now tell which leaf has the most? _____

What about the least? _____

What is It

Let us take a look at the chart of Esther.

Leaves	Numbers	Place Value			
		Thousands	Hundreds	Tens	Ones
A	2 165	2	1	6	5
B	6 103	6	1	0	3
C	6 100	6	1	0	0

To compare large numbers, just follow these simple steps:

1. Write the given numbers in vertical formation aligning the digits according to their place value as shown in the table.

2. Then, compare the numbers starting with the greatest place value from left to right; start from thousands, hundreds, tens, then ones. If the numbers on that specific place value are the same or equal, proceed to the next place value until you find difference of the value of numbers in that specific place value.

Leaf B and C both have the highest digit in thousands place. Going to the right, still both their digits are equal in hundreds and even in the tens place. Notice that as we proceed to the ones place, the digit 3 is greater than 0.

Then we can say that 6 103 is the greatest number among the given. Therefore, leaf B has the most number and leaf A is the least.

In comparing numbers, we use the symbols > for "greater than", < for "less than" and = for "equal to".

Example 1: 6 100 is greater than 2 165.

In symbol, it is written as: 6 100 > 2 165.

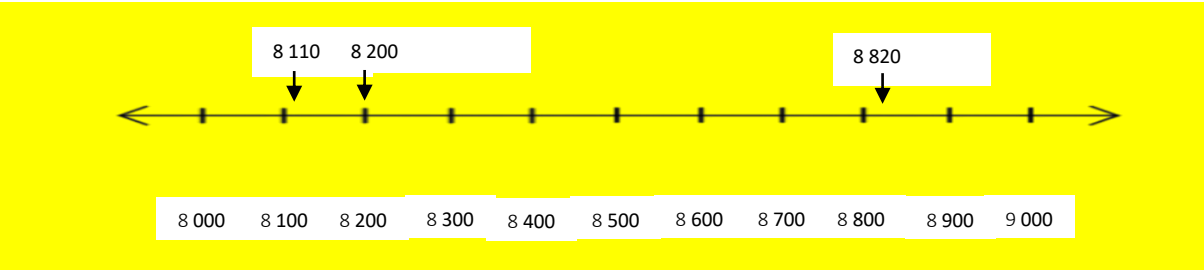
Example 2: 503 is less than 2 165.

In symbol, it is written as: 503 < 2 165

Example 3: 503 is equal to 503.

In symbol, it is written as: 503 = 503

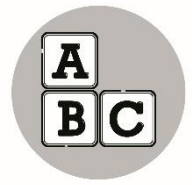
Another way of comparing numbers is by using a number line. Let us try to plot 8 110, 8 200 and 8 820.



The numbers on the given segment of the number lines are 8 110, 8 200 and 8 820. The leftmost number is 8 110 which is less than 8 200. The rightmost number is 8 820 which is greater than 8 200. Take note that the number going to the rightmost direction has a greater value than the number to the leftmost direction in the number line.

Study and compare the numbers below:

6 728	8 125	3 545	3 422
6 thousand	< 8 thousand	3 thousand	= 3 thousand
So, 6 728 < 8 125		5 hundred	> 4 hundred
8 125 > 6 728		So, 3 545 > 3 422	
		3 422 < 3 545	



What's More

Activity 3

Compare the numbers by writing greater than, less than and equal to.

1. 5 688 _____ 5 672
2. 9 189 _____ 9 235
3. 10 000 _____ 9 998
4. 4 577 _____ 4 000 + 600 + 20 + 1
5. 9 120 _____ 900 + 100 + 20 + 0
6. 6 256 _____ 6 000 + 200 + 50 + 6

Activity 4

Compare the numbers using >, < and = .

1. 8 905 _____ 8 890
2. 7 567 _____ 5 298
3. 8 190 _____ 8 000 + 100 + 90 + 2
4. 7 689 _____ 7 000 + 600 + 80 + 9
5. 8 000 + 600 +10 _____ 8 610
6. 3 487 _____ 3 456
7. 8 278 _____ 8 000 + 200 + 90 + 8
8. 5 000 + 100 + 20 +5 _____ 5 167

What I Have Learned

1. There are two ways in comparing numbers, we can use the place value of the number to identify which has a higher value. We can also compare value of numbers through number line.

2. In comparing numbers, we use the word or the relation symbols such as > for "greater than", < for "less than" and = for "equal to".

What I Can Do

Activity 5

Read and answer the problem below. Compare the number using <, > and =.

1. There are 3 567 schoolchildren at Maasin Elementary School while Antonio Elementary School has 300 more than the population of Maasin. What is the total population of Antonio Elementary School? _____
   - 3 567 _____ 3 867

2. Jose collected 1 625 stamps on April and 1 256 stamps on May. In what month did Jose collect more stamps? _____
   - 1 625 _____ 1 256

3. Arnie and Susan went to the shore to pick pebbles. Arnie picked 3 000 +100 + 60 + 7 pebbles while Susan had 3 167. Who has more pebbles? _____
   - 3 000 + 100 + 60 + 7 _____ 3 167

4. Mercy counted 4 057 marbles while Andres has 3 126 marbles. Who has more marbles? _____
   - 4 057 _____ 3 126

5. Hospital A collected 7 103 face shields for its medical workers while Hospital B has 8 043. Which hospital has lesser face shields? _____
   - 7 103 _____ 8 043

Assessment

Complete the number sentence by writing <, > and =.

1. 5 903 _____ 5 000 + 900 + 10 + 3
2. 8 000 + 100 + 70 + 9 _____ 8 179
3. 9 045 _____ 9 000 + 000 + 40 + 5
4. 7 237 _____ 7148
5. 8 975 _____ 8 000 + 900 + 80 + 5

Additional Activities

Activity 6

Box the number that has a greater thousands place value.

1. 9 768 8 236
2. 5 800 6 219
3. 7 246 1 577
4. 9 120 9 025
5. 6 789 9 107

Answer Key

What I Know

1. more than
2. less than
3. less than

What's In

1. 897, 899, 901, 903
2. 1 002, 1004, 1 006, 1008
3. 5 134, 5 136, 5 138, 5 140

What's More

Activity 3

1. greater than
2. less than
3. greater than
4. less than
5. equal to
6. equal to

Activity 4

1. >
2. >
3. <
4. =
5. =
6. >
7. <
8. <

What I Can Do

1. 3 867, <
2. April, >
3. equal, =
4. Mercy, >
5. Hospital A, <

Assessment

1. <
2. =
3. =
4. >
5. <

Additional Activity

1. 9 768
2. 6 219
3. 7 246
4. 9 120
5. 9 107

References

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, 21-24.

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.lrqad@deped.gov.ph * blr.lrpd@deped.gov.ph