

- JANUARY**
Makugihon
- FEBRUARY**
Mahigugmaon
- MARCH**
Matinabunon
- APRIL**
Matinahuron
- MAY**
Mahapsay og Malimpyo
- JUNE**
*Maabtik og Masunod sa
Dihaklong Oras*
- JULY**
Maantigo og Maabilidad
- AUGUST**
*Maginhuhunoon
para sa Urban*
- SEPTEMBER**
Madaginaton
- OCTOBER**
Matinud-anon
- NOVEMBER**
Masaligan
- DECEMBER**
Maalampon



Republic of the Philippines
Department of Education
 Regional Office IX, Zamboanga Peninsula



3



MATHEMATICS

4th QUARTER – Module 6: COLLECTING, SORTING, CLASSIFYING, AND ORGANIZING DATA IN TABULAR FORM



Name of Learner: _____

Grade & Section: _____

Name of School: _____

Mathematics – Grade 3
Alternative Delivery Mode
Quarter 4 - Module 6: Collecting, Sorting, Classifying, and Organizing Data in Tabular Form
First Edition, 2020

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Development Team of the Module

Writers:	Ma. Carmel D.R. Juaton Loida E. Fabian
Editors:	Jane Marie A. Añasco Elsa T. De Leon
Layout Artist:	Jhissa Lae DL. Cataylo
Reviewers: EPS Mathematics	Vilma A. Brown, Ed. D.
Principal	Lorena Q. Bejerano, Ed. D.
SST	Angelica J. Mañalac
Management Team: SDS	Roy C. Tuballa, EMD, JD, CESO VI
ASDS	Jay S. Montealto, CESO VI
ASDS	Norma T. Francisco, DM, CESE
EPS Mathematics	Vilma A. Brown, Ed. D.
EPS LRMS	Aida F. Coyme, Ed. D.

Printed in the Philippines
Department of Education – Region IX, Zamboanga Peninsula
Office Address: Tiguma, Airport Road, Pagadian City
Telefax: (062) – 215 – 3751; 991 – 5975
E-mail Address: region9@deped.gov.ph

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 of lessons in each SLM. This will tell you if you can proceed on completing this module or if you need to ask your facilitator or your teacher's assistance for a 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 with 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. Read the instructions carefully before performing each task.

If you have any questions 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

Learning Competency: The learner

- Collects data on one variable using existing records.
- Sorts, classifies, and organizes data in tabular form and presents this into a vertical or horizontal bar graph.



What I Know

A. Directions: Complete the table based on the data below. Write your answer on a separate sheet of paper.

Favorite Fruits of Grade III-Sampaguita

Banana	Orange	Apple	Grapes
Apple	Banana	Banana	Banana
Banana	Grapes	Orange	Mango
Grapes	Grapes	Mango	Grapes
Orange	Orange	Mango	Apple
Mango	Apple	Mango	Banana

Fruits	Tally	Total
Banana		
Apple		
Grapes		
Orange		
Mango		

B. Directions: Present the table above using a bar graph. Write your answer on a separate sheet of paper.

LESSON 1

COLLECTING DATA ON ONE VARIABLE USING EXISTING RECORDS



What's In

Directions: Study the table below and answer the questions that follow.

Favorite Sports of Grade III Reyes

Sports	Total
Basketball	15
Volleyball	12
Swimming	8

QUESTIONS:

1. How many pupils liked basketball? Volleyball? Swimming?
2. Which among the sports given would you like to play? Why?
3. Why is it important to engage in sports?



What's New

Mrs. Soriano administered a summative test in Mathematics in her Grade 3 class. The scores are shown.

Scores in Achievement Test in Mathematics

15 20 19 17 17 17 18 20 20 19
17 16 18 15 20 18 18 18 19 19

QUESTION:

Can you easily tell how many pupils got a score of 15? 16? Why?



What is It

Let us look at the given information.

Title	→	Scores in Achievement Test in Mathematics									
Scores	→	15	20	19	17	17	17	18	20	20	19
		17	16	18	15	20	18	18	18	19	19

- To organize the table's information, **arrange the scores from highest to lowest**, as shown in the table below.

Scores in Achievement Test in Mathematics

Score	Tally	Total
20		
19		
18		
17		
16		
15		
Total		

- Tally the number of pupils** who got the following scores 20, 19, etc., in the table by **marking (I) in the tally column**. Do this until the last score has been tallied.

Scores in Achievement Test in Mathematics

Score	Tally	Total
20	IIII	
19	IIII	
18	IIII	
17	IIII	
16	I	
15	I	
Total		

- Count the number of pupils who got 20; 19; 18; and so on and write the total in the total column.
- Present the data in a table.

Scores in Achievement Test in Mathematics

Score	Tally	Total
20	IIII	4
19	IIII	4
18	HHH	5
17	IIII	4
16	I	1
15	I	1
Total		20

Scores in Achievement Test in Mathematics

Score	Number of pupils who got the score
20	4
19	4
18	5
17	4
16	1
15	1
Total	20

- Now, looking at the table, can you easily see the number of pupils who got 20?
- What score has the greatest number of pupils?
- How many pupils took the test?

LESSON 2

SORTING, CLASSIFYING, AND ORGANIZING DATA IN TABULAR FORM



What's In

Directions: Look at the given table and answer the questions by writing the letter on a separate sheet of paper.

Week	1	2	3	4	5
Bananas eaten by the monkey	6	11	15	7	5

- How many bananas did the monkey eat in week 5?
A. 6 B. 7 C. 5 D. 11
- In which week did the monkey eat the least number of bananas?
A. 1 B. 2 C. 7 D. 5
- How many bananas were eaten by the monkey in 5 weeks?
A. 64 B. 44 C. 54 D. 74



What's New

Mrs. Gonzales conducted an interview among her grade 3 pupils about their favorite sports. She asked her pupils to write their favorite sports.

Sports	Number of pupils
Basketball	15
Badminton	10
Volleyball	6
Baseball	5
Table tennis	4
Total	40

GUIDE QUESTIONS:

- Which sport is most preferred by the pupils to play?
- Which sport is least preferred by the pupils?
- How many pupils were interviewed?
- How is the data presented?



What is It

There is another way of presenting the data given. We can present the data using a **bar graph**.

➤ How do we make a bar graph?

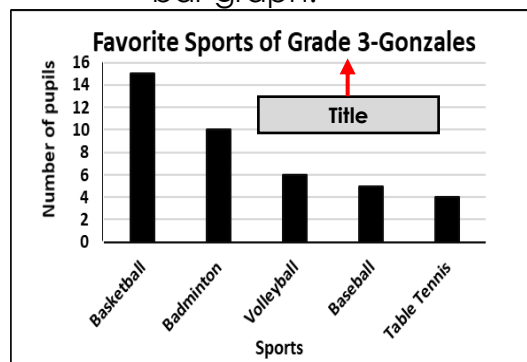
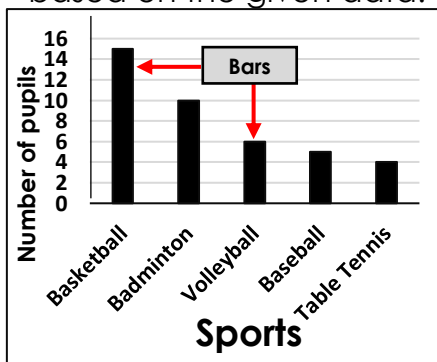
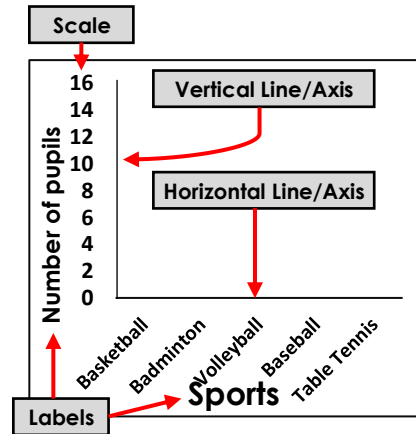
STEP 1: Make the horizontal and vertical lines/axis.

STEP 2: Write the appropriate labels in the horizontal and the vertical axis.

STEP 3: Make the appropriate scale in the vertical axis.

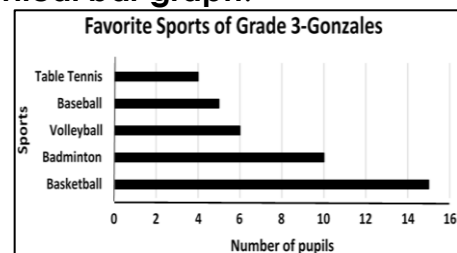
STEP 4: Draw the bar for each category based on the given data.

STEP 5: Write a good title for the bar graph.



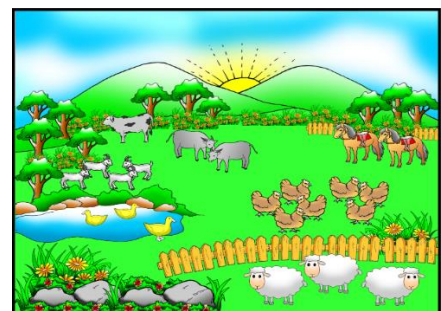
This kind of bar graph is what we call the **vertical bar graph**.

There is another way of presenting the data. It can also be presented using a **horizontal bar graph** as shown on the right. The examples of the kinds of bar are shown in this module. Did you observe changes in the given information?



What's More

Directions: Identify and count the animals found in the picture. Create a table and a bar graph using the data collected. Write on a separate sheet of paper.





What I Have Learned

How do we organize the available data/information?

- We can organize data using **tables** and **bar graphs**.






What are the things that should be observed in making a bar graph?

- Draw the horizontal and vertical axis.
- Write the appropriate labels on the horizontal and vertical axis.
- Make the appropriate scale/interval in the vertical/horizontal axis.
- Write the different categories.
- Draw the bar for each category based on the given data.
- Write a good title for the bar graph.



What I Can Do

Mrs. Reyes, owner of a toy store sold the following toys last Saturday. Make a **table** and a **horizontal bar graph** based on the given data/information on the right.

Toys	Number of Toys Sold
Top	
Ball	
Toy car	
Yoyo	
Marble	



Assessment

A. Directions: Use the information below to form the data in a table. Write on a separate sheet of paper.

The Grade III pupils were grouped into three with seven members. Each group was assigned to collect empty plastic bottles.

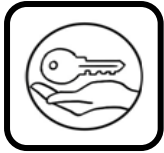
Here is the data of bottles collected by each group in five (5) days.

Number of Bottles Collected

	Monday	Tuesday	Wednesday	Thursday	Friday
Group 1	11	5	6	10	15
Group 2	9	3	5	11	10
Group 3	3	10	8	10	11

Groups			
Number of Bottles collected			

B. Directions: Use the table above to present the data in a horizontal or vertical bar graph. Write on a separate sheet of paper.



Answer Key

What I Know:
 A. Banana – III – 1 (6)
 Orange – III – 5 (5)
 Apple – III – 4 (4)
 Mango – III – 5 (5)
 Grapes – III – 5 (5)

What's In:
 A. (1) 15, 12, 8
 B. (1) C
 (2) Answer may vary
 (3) To be healthy and strong
 (3) C

What's New:
 A. No, because the scores are not arranged.
 B. Basketball
 Table Tennis
 40
 in a table form

What's More:

Name of Animal	Number of Animal
Cow	1
Horse	2
Carabao	2
Sheep	3
Duck	3
Goat	4
Chicken	7

BAR GRAPH

Animals in the Farm

Name of Animal	Number of Animals
Chicken	7
Goat	4
Duck	3
Sheep	3
Carabao	2
Horse	2
Cow	1

What I Can Do:

Toys	Number of Toys Sold
Top	12
Ball	14
Toy car	9
Yo-yo	5
Marble	9

BAR GRAPH

Sale of Toy Store

Toys	Number of toys sold
Ball	9
Top	12
Toy Car	9
Marble	9

Assessment:

Groups	Number of Bottles Collected
1	47
2	38
3	42

VERTICAL BAR GRAPH

Number of Bottles Collected

Groups	Number of Bottles Collected
1	47
2	38
3	42

References:

Ofelia G. Chingcuangco, et. al. Mathematics 3 Teachers Guide Pasig City Philippines Rex Book Store, Inc. 2015.

Ofelia G. Chingcuangco, et. al. Mathematics 3 Learning Materials Pasig City Philippines Rex Book Store, Inc. 2015.