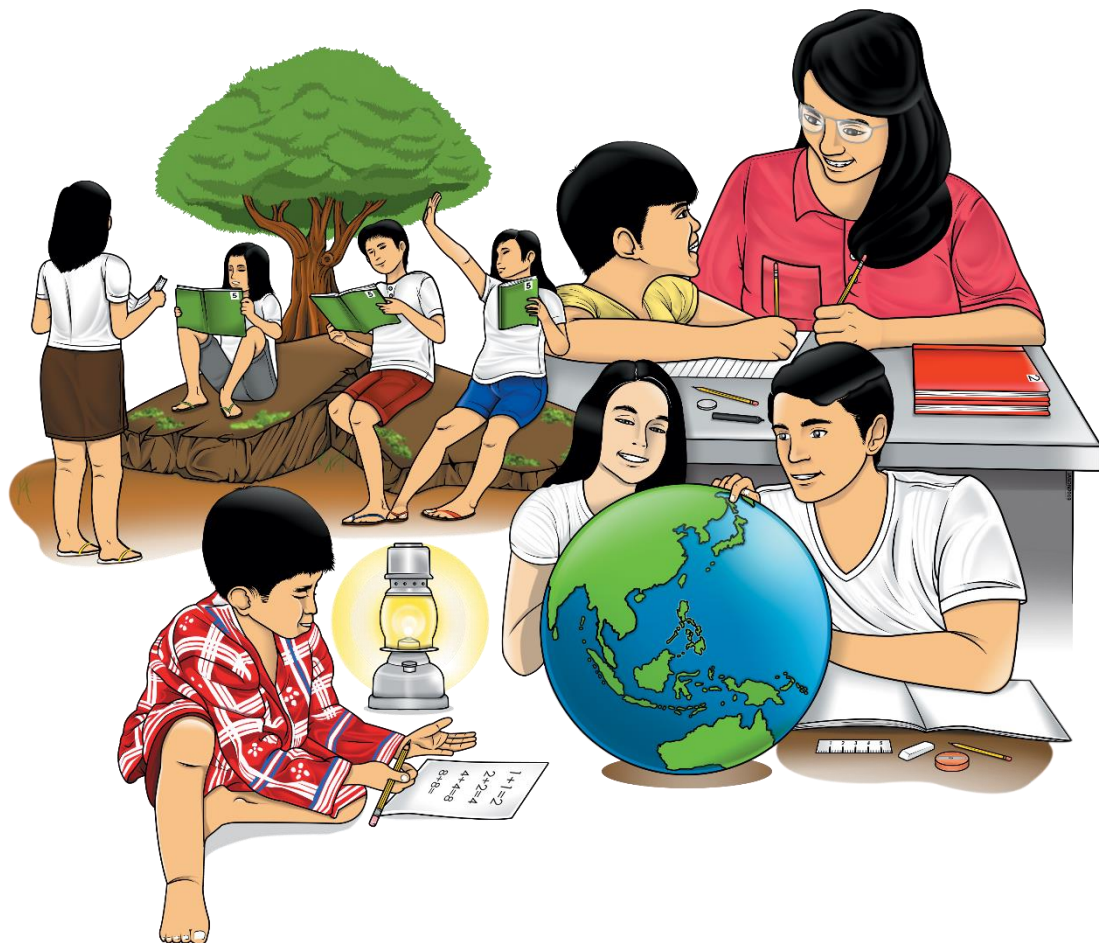


# Mathematics

Quarter 4 – Module 76:

Sorting, classifying, organizing data  
in tabular form and presents this  
into a vertical and horizontal bar  
graphs



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This instructional material was collaboratively developed and reviewed by educators from public and private schools, colleges, and or/universities. We encourage teachers and other education stakeholders to email their feedback, comments, and recommendations to the Department of Education at [action@deped.gov.ph](mailto:action@deped.gov.ph).

**We value your feedback and recommendations.**

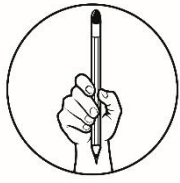
# *What I Need to Know*

## Introduction

This module was designed and written to help you sort, classify, organize data in tabular form and present it in a vertical or horizontal bar graph. To get started, first you should know or review the two kinds of bar graph, horizontal and vertical bar graph, and understand it. The information in the bar graph can be read and interpreted using the title, legend, and the labels.

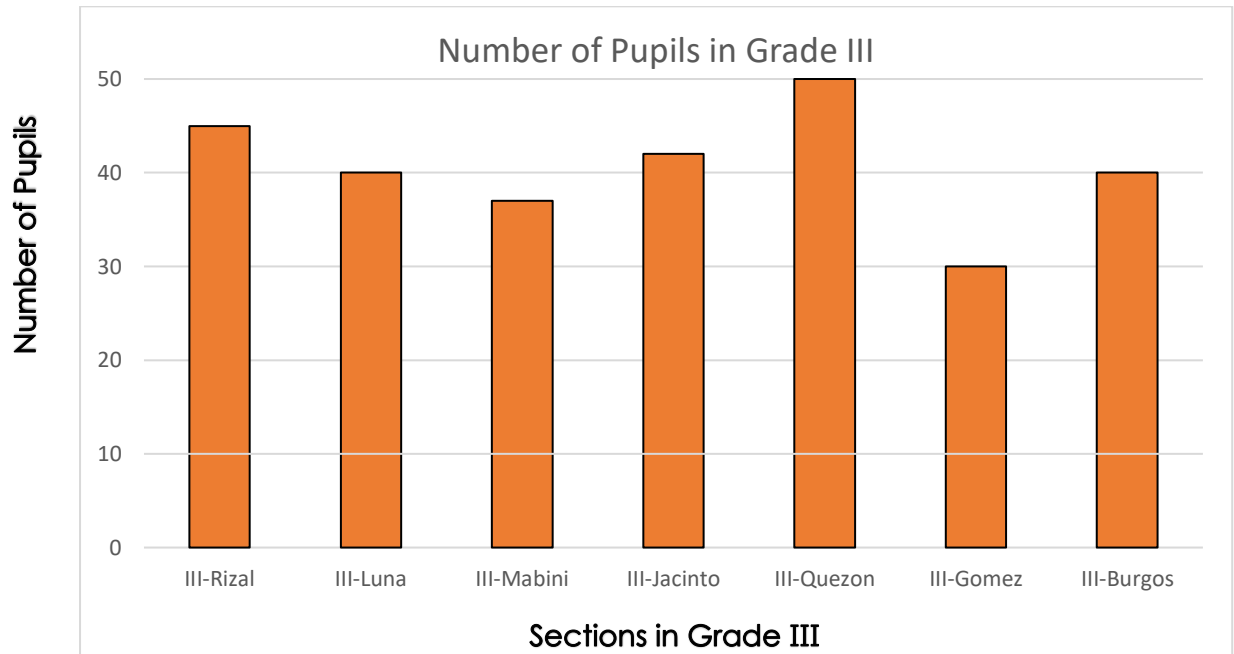
After going through this module, you are expected to:

1. Sort, classify, organize data in tabular form and presents this into a vertical and horizontal bar graphs



## *What I Know*

A. What are the information given in the illustration:



1. What is the title of the bar graph?
2. What does the horizontal line tell?
3. What does the vertical line tell?
4. Which has the smallest number of enrolment?
5. Which has the greatest number?
6. What sections have the same enrolment?

# Lesson

Sorting, classifying, organizing data in tabular form and presents this into a vertical and horizontal bar graphs

Presentation of the Problem

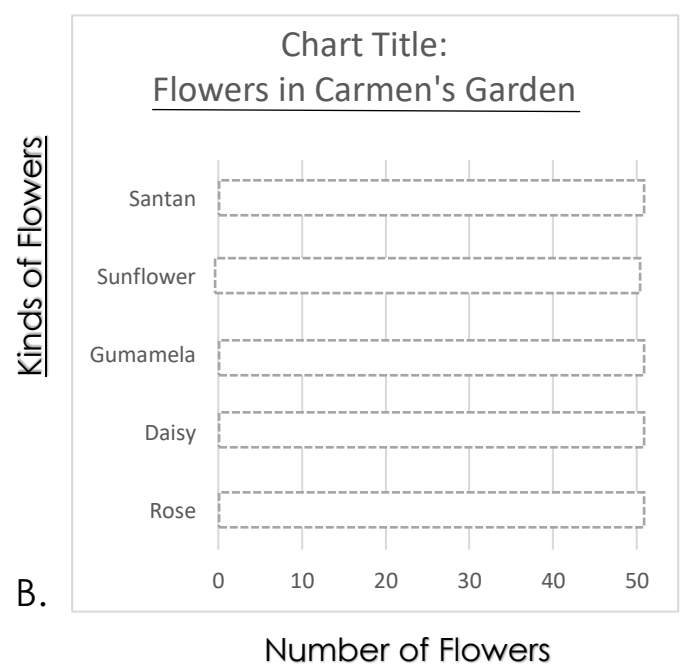
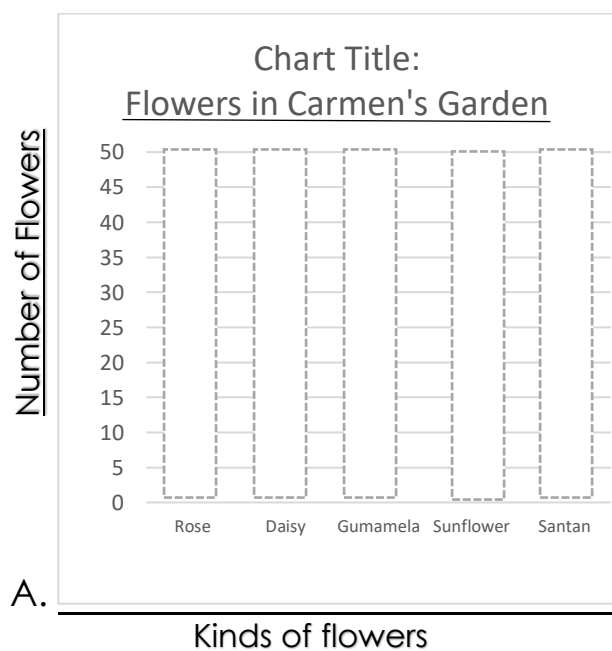
Post the data. Ask pupil to read it.

Problem 1:

## Flowers in Carmen's Garden:

Rose – 20  
Daisy – 25  
Gumamela – 35  
Sunflower – 40  
Santan – 30

Using the given data, fill in the two bar graph. Follow the labels given.





## *What's In*

- A. How did you sort, classify and organize the following data?  
What can you say about the Graph A? How about Graph B?
- B. Where do you put the titles/names?  
What is the label for the data written vertically? horizontally?



### *Notes to the Teacher*

## Activity 1

Let us go back and discuss the data given in Problem 1 by answering the following questions:

1. How did you construct the bar graph?
2. What is the interval used in the numbers in graph A? in Graph B?
3. Did you shade properly the bars that represent the given data?
4. What is the title of the given bar graph?
5. Which of the kind of flower has the greatest number? Has the smallest number?
6. Is it more easy to know the number of the flowers through the illustration? Why?



## What is It

### Activity 2

Organize and complete the vertical bar graph using the following data:

Number of Books borrowed  
in the Library:

Kinder – 35

Gr. 1 – 60

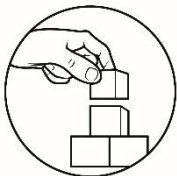
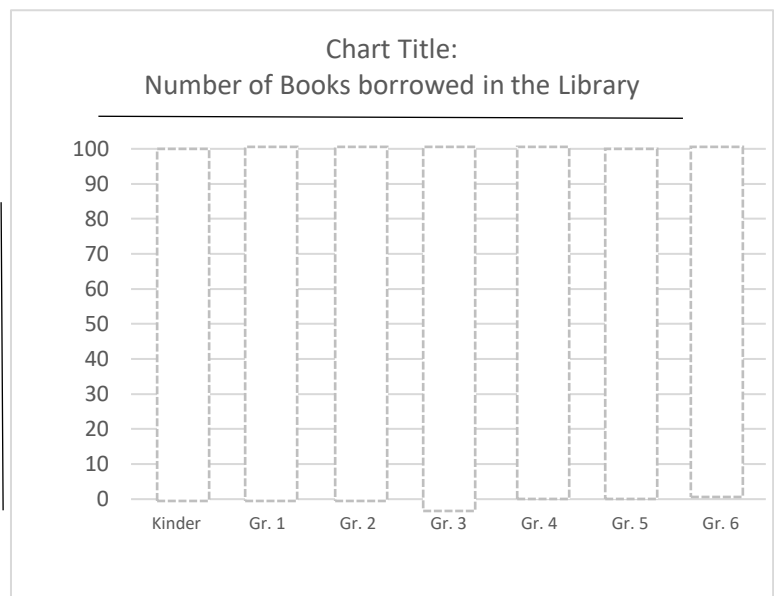
Gr. 2 – 75

Gr. 3 – 18

Gr. 4 – 80

Gr. 5 – 50

Gr. 6 - 60



## What's More

### Activity 3

Sort and organize the following data in a horizontal bar graph with the correct labels:

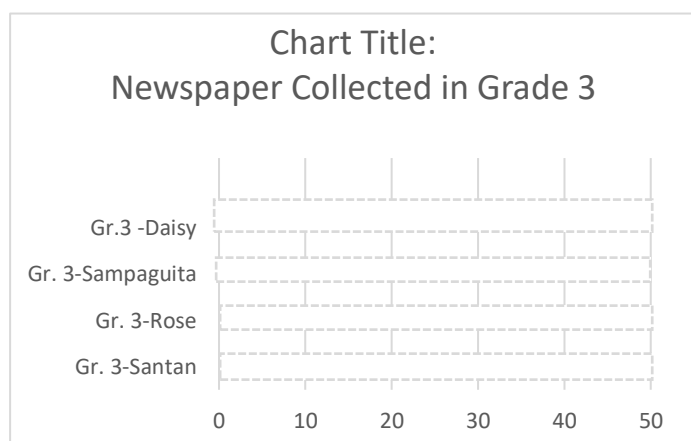
Newspaper collected in Grade  
3:

Gr. 3-Santan - 30 kilograms

Gr. 3- Rose - 50 kilograms

Gr. 3- Sampaguita -20 kilograms

Gr. 3- Daisy - 45 kilograms



#### Activity 4

Construct a vertical bar graph using the following data:

Number of girls in each team:

Red team – 15

Blue team -35

Green team – 47

Yellow team -35

Note to the teacher:

While the pupils are doing the activity, assist the pupils especially in the difference between vertical and horizontal bar graph. Ask the pupils to illustrate the bar graph carefully with the needed labels.

#### Activity 5

Construct a horizontal bar graph using the following data:

Number of pets in their homes:

dog – 20

cat -15

rabbit –8

chicken -15



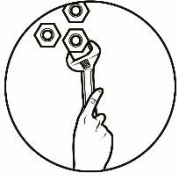
### ***What I Have Learned***

What are the important ideas that you know in constructing a bar graph?

A graph is a diagram which shows how two or more sets of information are related. The horizontal line is the x-axis and the y-axis is the vertical line. The axes intersect at a point called origin.



The x-coordinate tells how far to move horizontally while the y-coordinate tells how far to move vertically.



## *What I Can Do*

### Activity 6

Make a bar graph for the grades of Carlito in Math quizzes

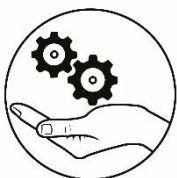
Quiz Number	Grade
1	87
2	84
3	90
4	78
5	85



## *Assessment*

Make a horizontal bar graph based on empty bottles

Grade	Number of bottles
1	200
2	400
3	300
4	200
5	500

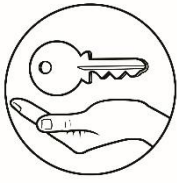


## *Additional Activities*

### Activity 7

Make a vertical bar graph based on empty bottles

Grade	Number of bottles
1	200
2	400
3	300
4	200
5	500



## *Answer Key*

What I know

1. Number of pupils in Grade 3.
2. Sections in grade 3.
3. Number of pupils.
4. III-Gomez
5. III- Quezon
6. III- LUNA and III-BURGOS

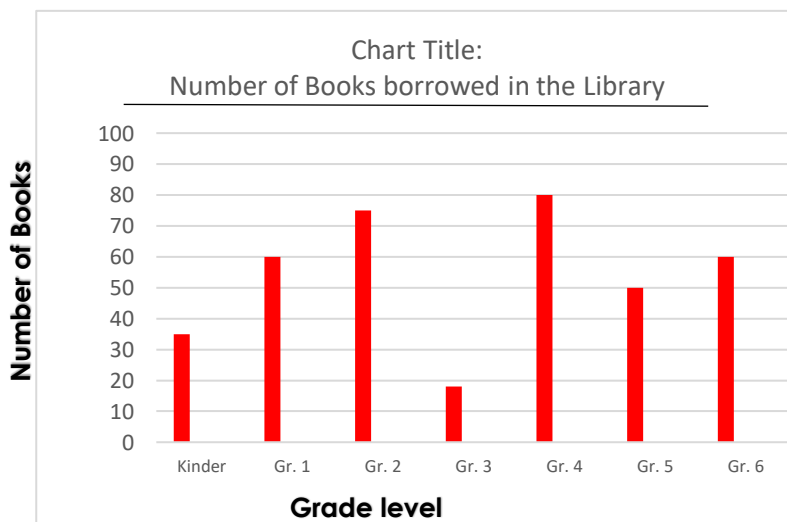
What's in

- A. Organizing the data and shading the bar according to the number.  
The Bar in graph A is vertical while the bar in graph B is horizontal.
- B. The title is above the graph and the labels are in the side and below.

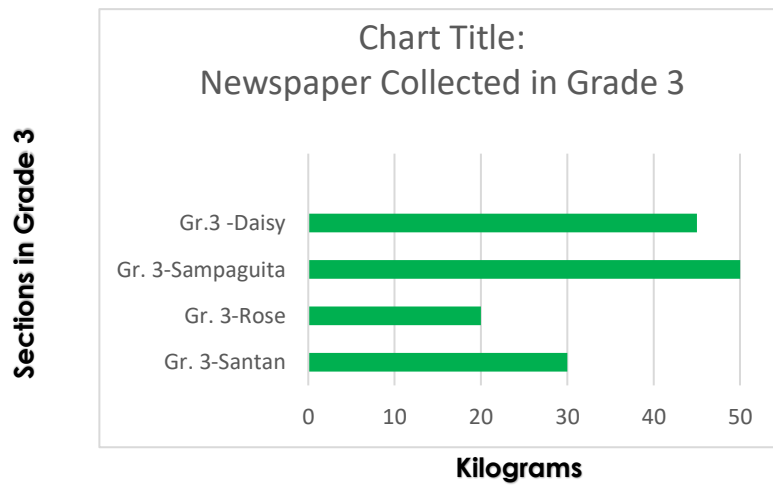
Activity 1

1. Shading the bars based on the given data.
2. By 5.
3. Yes.
4. Flowers in Carmen's garden
5. Greatest-Gumamela. Least-Rose
6. Yes, because it can be compared easily.

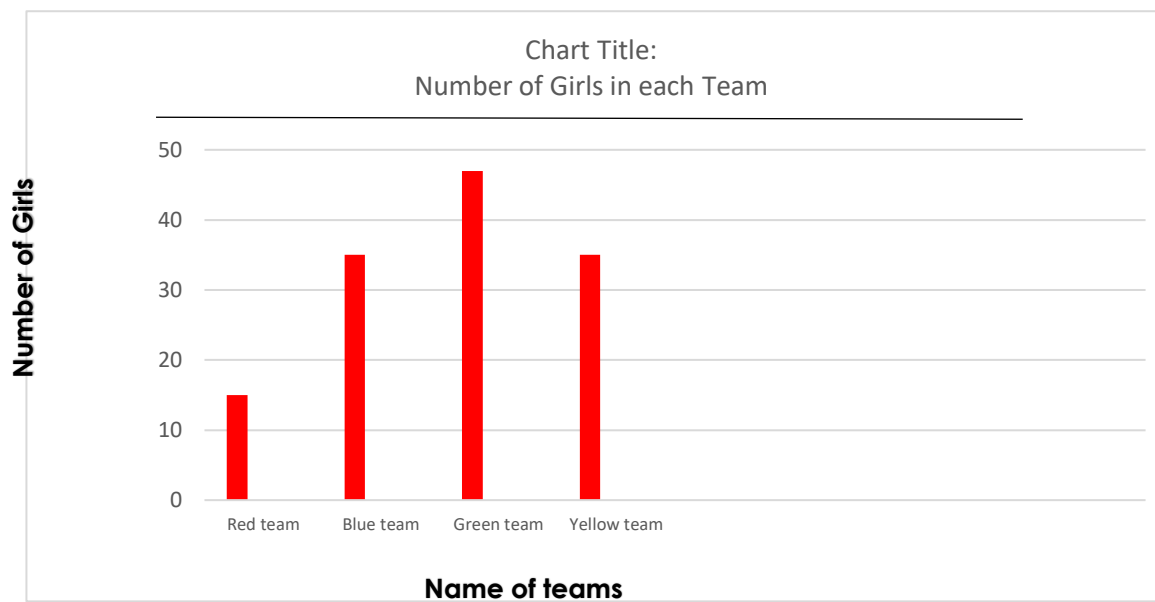
Activity 2



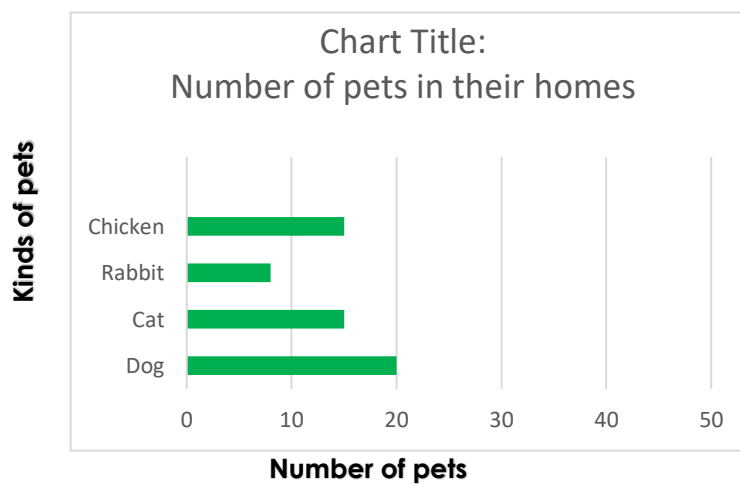
### Activity 3



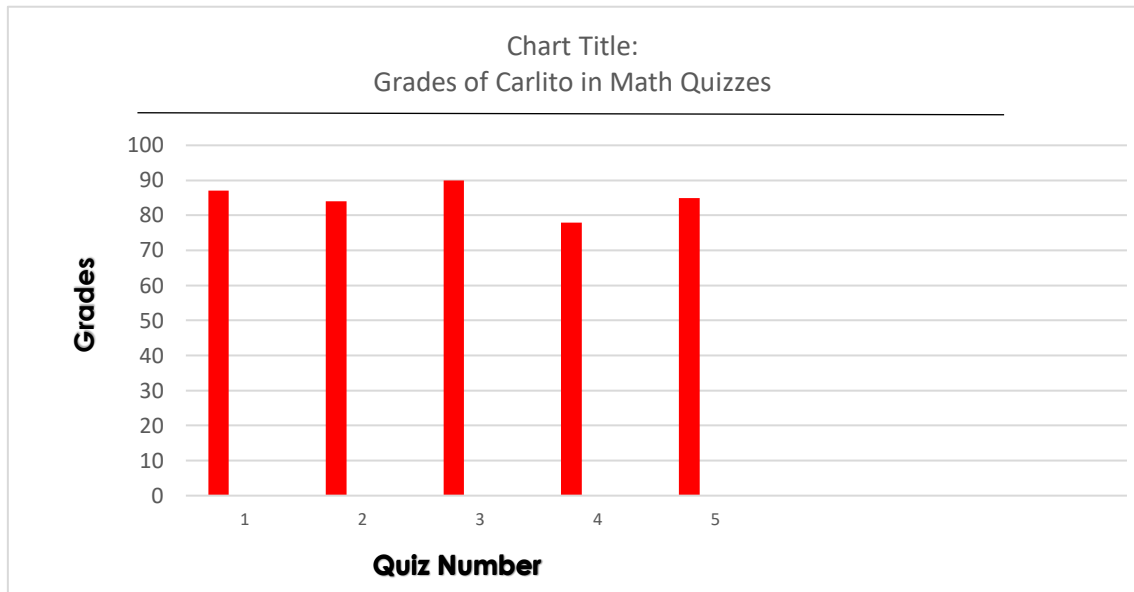
### Activity 4



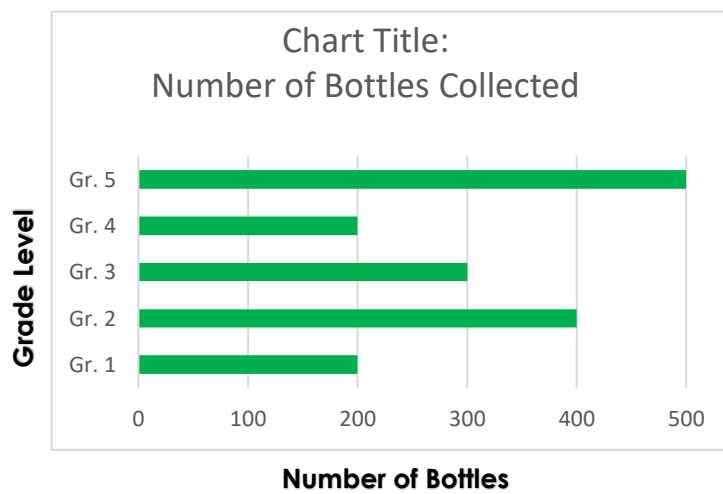
### Activity 5



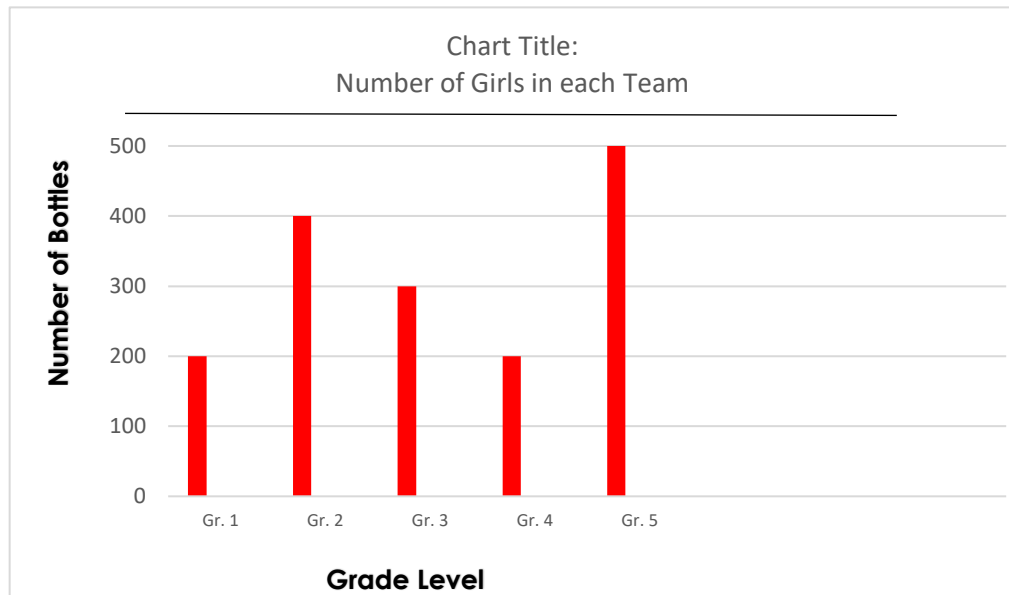
## Activity 6



## Assessment:



## Additional Activities:



## References

Mathematics Teacher's Guide in Grade 3, pages 170 - 172

Mathematics Kagamitan ng Mag-aaral Sinugbuanong Binisaya,  
pages 318 -321

**For inquiries or feedback, please write or call:**

Department of Education – (Bureau/Office)

(Office Address)

Telefax:

Email Address: