

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



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



1



MATHEMATICS

4th QUARTER – Module 6: ESTIMATING AND MEASURING LENGTH, MASS, AND CAPACITY



Name of Learner: _____

Grade & Section: _____

Name of School: _____

Mathematics – Grade 1

Alternative Delivery Mode

**Quarter 4 - Module 6: ESTIMATING AND MEASURING LENGTH, MASS AND CAPACITY
First Edition, 2020**

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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 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 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. 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 written as an aid in the lesson of the fourth quarter of grade 1 Mathematics. The module shows how to estimate and measure length, mass and capacity using non-standard units of measures.

It covers the key concepts of estimating and measuring length, mass and capacity using non-standard units of measures.

Believe that learning can continue amidst health crises. Good luck, stay safe and God Bless.



What I Know

Directions: Choose the letter that corresponds to your answer. Write your answer on a separate sheet.

1. How long is Maria's hair?

- A. 2 combs B. 3 combs C. 4 combs



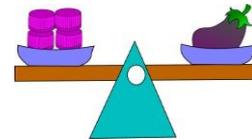
2. What is the length of the belt?

- A. 5 popsicle sticks
B. 6 popsicle sticks
C. 7 popsicle sticks



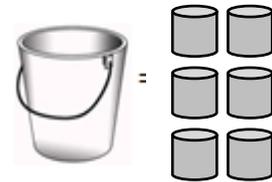
3. What is the weight of the eggplant?

- A. 3 cubes B. 4 cubes C. 5 cubes



4. How many can of water a pail can hold?

- A. 4 cans of water
B. 5 cans of water
C. 6 cans of water



5. What is the weight of the eraser?

- A. 3 marbles B. 4 marbles C. 5 marbles



LESSON

ESTIMATING AND MEASURING LENGTH, MASS AND CAPACITY USING NON – STANDARD UNITS OF MEASURES



What's In

Can you still remember what Non – Standard Units of Measurement is?

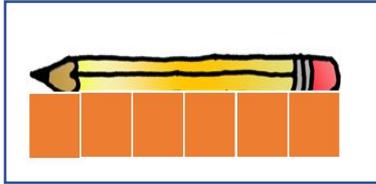


Non – standard units of measurement are the units of measure that are not typically used as standard units such as pencils, an arm, a toothpick, paper clips, cubes, improvised balance and containers.



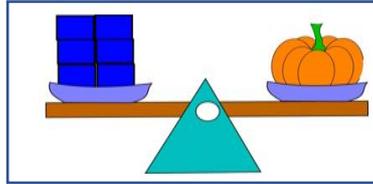
What's New

Look at the illustrations below.



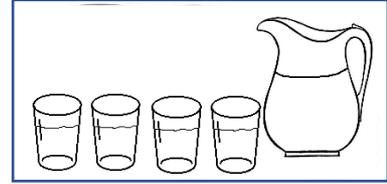
A

1. How long is the pencil?



B

2. What is the weight of the squash?



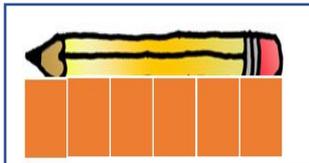
C

3. What is the capacity of the water pitcher?



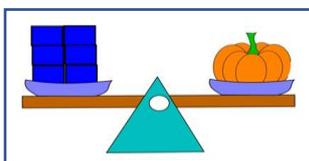
What is It

In the given illustrations above, we can estimate and measure the given objects using non-standard units of linear measures (illustration **A**), using non-standard units of mass measures (illustration **B**) using non-standard units of capacity measures (illustration **C**)



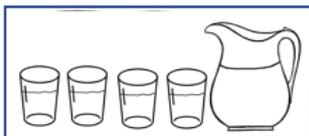
A

To get the length of the pencil, we simply count the number of strips. Since there are 6 strips, the estimated measurement of the pencil is 6 strips.



B

In finding the weight of the squash, we can use an improvised balance and cubes. The squash has the same weight as the cubes. Since there are 6 cubes, the weight of the squash is 6 cubes.



C

In finding the capacity of the water in the pitcher, we can use drinking glasses. Since there are 4 drinking glasses, the capacity of the water in the pitcher is 4 drinking glasses.

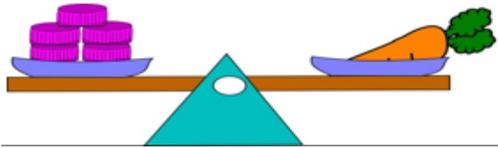
Non-standard units of measures are objects or things that are not typically used as standard units of measures, such as paper clips, pencils, strips cans, cups, improvised balance, marbles, cubes, etc.



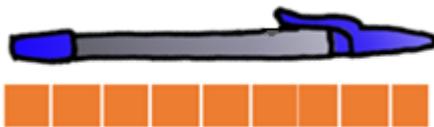
What's More

Directions: Study the illustrations and answer what is being asked. Write your answer on a separate sheet.

1. The weight of the carrot in bottle caps is _____.



2. The length of the pen in strips is _____.



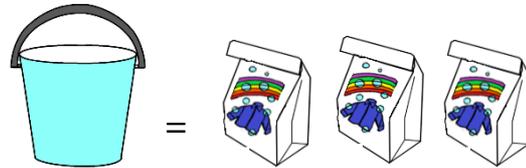
3. The watercolor has a length of _____ pencils.



4. This bottle can hold _____ glasses of juice.



5. 1 pail can hold _____ plastic detergent.



What I Have Learned

REMEMBER

In estimating and measuring length, mass and capacity using non-standard units of measures that are not typically used as standard units measures such as paper clips, pencils, strips cans, cups, improvised balance, marbles, cubes, etc.



What I Can Do

Directions: Read and answer the following questions.

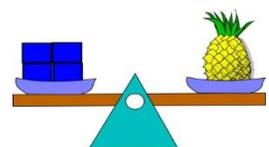
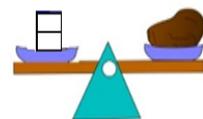
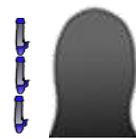
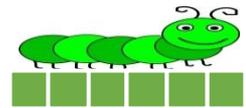
1. Your mother asked you favor to fill the jar with gallons of water. What are you measuring?
A. Length **B.** Mass **C.** Capacity
2. What are you going to use to measure the length of your bracelet?
A. cubes **B.** cup **C.** stones
3. You want to buy vegetables in the market and wanted to know which vegetables weigh heavier, what will you do?
A. measure the length of the vegetable using fingers.
B. put the vegetables in both hands.
C. fill the container with vegetables.



Assessment

Directions: Choose the letter of the correct answer. Write it on a separate sheet.

1. The length of the caterpillar is equal to how many paper strips?
A. 4 **B.** 5 **C.** 6
2. How many pens are equal to the length of Maria's hair?
A. 3 **B.** 4 **C.** 5
3. What is the equivalent weight of the sweet potato in cubes?
A. 2 **B.** 3 **C.** 4
4. How many pails of water an aquarium can hold?
A. 1 **B.** 2 **C.** 3
5. What is the equivalent weight of the pineapple in cubes?
A. 5 **B.** 4 **C.** 3





Answer Key

What I Know: 1.A 2.A 3.B 4.C 5.C

What's New: 1. 6 strips
2. 6 cubes.
3. 4 drinking glasses

What's More: 1. 5 2. 9 3. 5 4. 6 5. 3

What I Have Learned: 1. Mass 2. Capacity 3. Objects or things

What I Can Do: 1.C 2.C 3.B

Assessment: 1.C 2.A 3.A 4.B 5.B

Reference:

Danilo S. Padilla, et al., *Mathematics 1- 1- Kagamitan ng Mag-aaral (Chavacano)*, 2017, 275-280.