6
Grade

(GCED)

Global Citizenship Education

Lesson Exemplar

MATHEMATICS

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Learning Area: Mathematics
Grade Level: 6
Title: "Celebrate Life with Food and Gratitude" Solving Routine and Non-Routine Problems Involving Addition and Subtraction of Fractions using Appropriate Problem-Solving Strategies and Tools
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Learning Area: Mathematics

Grade Level: 6

Quarter: 1st

GCED Domain/s: Cognitive, Socio-Emotional and Behavioral

GCED Indicator/s:

DD1.1.a Solve complex situations or problems

D1.1.e Evaluate appropriate actions, consequences, and implications

D2.1.g Demonstrate respect for different beliefs and expressions of spirituality.

D3.1.c Act habitually based on respect and empathy

GCED Topic/s:

T2 Culture and intercultural relations

T2.2 Cultural Expressions and Intercultural Exchanges and Communication

Enhanced Content Standard/s:

Solve routine and non-routine problems involving addition and/or subtraction of fractions using appropriate problem-solving strategies and tools in various forms and as applied to local, national, and global contexts.

Enhanced Performance Standard/s:

Justify results in respectful manner in applying the processes involved in adding and/or subtracting fractions to solve routine and non-routine mathematical problems and real-life situations such as in preparation of local and international dishes to celebrate special occasions such as Thanksgiving.

Time Allotment:

50 minutes

TABLE OF CONTENTS

“CELEBRATE LIFE WITH FOOD AND GRATITUDE”

SOLVING ROUTINE AND NON-ROUTINE PROBLEMS INVOLVING ADDITION AND SUBTRACTION OF FRACTIONS USING APPROPRIATE PROBLEM-SOLVING STRATEGIES AND TOOLS

LESSON INTRODUCTION

Food is important in any celebration. Diversity on ways as to how people in different parts of the world celebrate special occasions like Christmas, New Year, Thanksgiving, weddings and birthdays are observed. But do you know what makes all these festivities more meaningful? It is the spirit sharing of good food among families and friends making it a celebration of life and gratitude. Food unites people and strengthen community bonds regardless of race, culture nor religion.

Food is an expression of cultural identity. Has it crossed your mind wondering what you eat can tell where you come from? That is because there is a connection between food and culture. Many food recipes are passed down from one generation to the next. People usually bring the food of their own with them wherever they go and try some of the famous delicacies of the places they visit.

As you sharpen your skills in mathematics, you will also learn to appreciate different dishes from selected countries. Read about and try these dishes. Know their nutritional values and make some modifications to suit your taste and preference. Apply your math skills in adding/subtracting amounts of ingredients to make a healthy and delicious meal.

Enjoy learning and have fun answering the activities in this learning exemplar!

LESSON OBJECTIVE

(WHAT I NEED TO KNOW / ALAMIN)

After going through this module, you are expected to:

- Assess the routine and non-routine problems involving addition and/or subtraction of fractions.
- Apply appropriate problem-solving strategies and tools to analyze and solve routine and non-routine problems.
- Take part in promoting respect in different customs and traditions during celebration of special occasions by making a home-made Puto, a Filipino rice cake.
- Value the spirit of sharing among families and the greater community

PRETEST

(WHAT I NEED TO KNOW / SUBUKIN)

Directions: Analyze and solve the following problems. Choose the letter of the correct answer.

Bicol Region is well known for Mayon Volcano, secret beaches, and spicy food. One of its original dishes is Laing. To cook, you will be needing the following ingredients:

1/2 kg dried gabi leaves
1 thumb-sized ginger, minced
2 onion, chopped
3 cloves garlic, minced
1/4 kg pork belly, diced
1 tablespoon shrimp paste
8 red chili, chopped
1 1/2 kg coconut milk

1. How many kilograms of pork belly and coconut milk are needed to cook 1/2 kg of dried gabi leaves?
A. 1/4 B. 3/4 C. 1 1/4 D. 1 3/4

2. If you have 1 1/2 kg of pork belly at home, how many kg of pork will be left after cooking Laing?
A. 1 3/4 B. 1 1/4 C. 1 1/2 D. 3/4

Klarize visited her cousin, Ji-Yo, in South Korea. One Saturday morning, Klarize saw Ji-Yo helping her mother make kimchi, a traditional Korean fermented dish. One of the main ingredients in preparing the dish is the Korean chili powder called gochugaru. For a medium head napa cabbage, 4 1/2 tablespoons of gochugaru are needed.

3. If 3 1/3 tablespoons of gochugaru were left in the container, how much more gochugaru is needed by Ji-yo's mother to prepare the kimchi ?
A. 1 1/6 B. 1 3/4 C. 5 1/6 D. 5 1 3/4

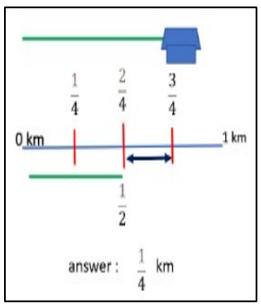
When Klarize got back home in the Philippines, she requested her mother to prepare kimchi using the recipe shared by Ji-yo's mother. She likes it spicier so her mother added 3/4 tablespoons more of the gochugaru.

4. How many tablespoons of gochugaru will be needed by Klarize's mother?
A. 4 1/2 B. 5 1/4 C. 4 1/4 D. 5 1/2

Norlito, a Grade 6 GCED learner in Itaas Elementary School, lives inside the compound of the Bureau of Corrections in Muntinlupa. He needs to walk 3/4 kilometer going to school from home. One Monday, after walking for 1/2 kilometer, he stopped at Jamboree Lake to take a selfie photo for his Araling Panlipunan Project.

4. How far does Norlito need to walk more to reach the school? Which of the following illustrations shows the correct solution and answer to the problem?

A.



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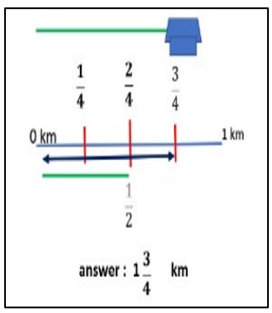

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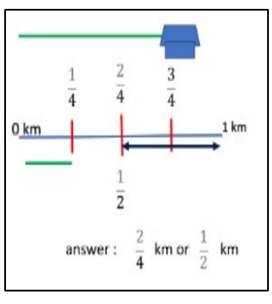

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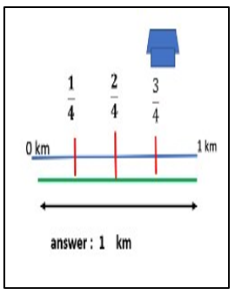


LESSON PROPER

REVIEW (WHAT'S IN/BALIKAN)

Before discussing problem solving techniques and strategies involving addition and/or subtraction of fractions, let us recall and check first your understanding on the processes involved in addition and subtraction of fractions as well as the concept on fraction, routine, and non-routine problem.

Perform the indicated operation.

5/8 + 2/8

1/2 + 1/4

3/4 - 2/3

1 1/5 + 2 3/5

5 – (2 1/2+ 5/6)

A fraction simply tells how many parts a whole has. Fraction can be recognized by the fraction bar between the numerator and the denominator.

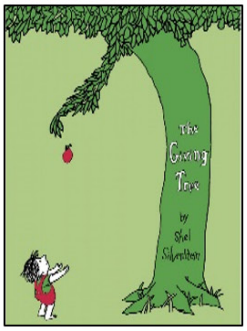
Routine problem is a type of problem in which there is an immediate solution.

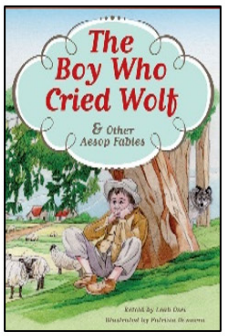
A non-routine problem is any complex problem that requires creativity or originality to solve. In Non-routine problems, people usually do not have an immediate strategy in finding the best solutions. Often times, these problems can be solved in multiple ways. Decision making really matters in the choice of strategies in arriving at solutions that will best help in identifyin g the correct answer.

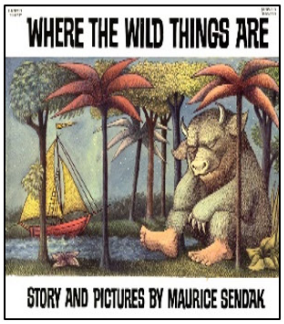
LESSON PROPER

ACTIVITY (WHAT'S NEW/TUKLASIN)

Have you read one of the books shown below? If not, would you like to read one? Which will be your first choice? Why did you choose that story? How do you feel after reading a story that you like?





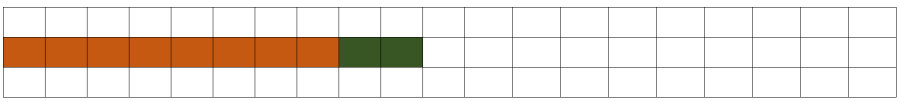


Mrs. Aparece, a Grade 6 teacher at Villaflor Elementary School in Danao, Bohol, asked each of her 20 pupils about their choice on the 5 children's story books. This was the result of her survey.

Title of the Book		Learner's Choice	Lowest term
Alice in Wonderland		$\frac{3}{20}$	$\frac{3}{20}$
The Giving Tree		$\frac{4}{20}$	$\frac{1}{5}$
Jonah and the Big Fish		$\frac{2}{20}$	$\frac{1}{10}$
The Boy Who Cried Wolf		$\frac{8}{20}$	$\frac{2}{5}$
Where the Wild Things Are		$\frac{3}{20}$	$\frac{3}{20}$

- Based on the results, which story is most liked by the class?
- Which is the least liked by the learners?
- What do you think is the reason why they like The Boy Who Cried Wolf more than Jonah and the Big Fish?

The fraction diagram below will help you answer the questions that follow:



*Orange shaded squares represent the pupils who choose The Boy Who Cried Wolf
*Green shaded squares represent the pupils who choose Jonah and the Big Fish

·How many more pupils chose The Boy Who Cried Wolf than that of Jonah and the Big Fish? What part of the class is your answer?

What fraction will represent the learner's choice for both stories?

LESSON PROPER

DISCUSSION (WHAT IS IT/TALAKAYIN)

In the activity that you did in What's In "Tuklasin Natin", you just solved a routine problem involving addition and subtraction of fractions. Also you have learned how to show respect on others preference and opinion. Children around the world may have different likes and dislikes but that should not be a cause for misunderstanding.

Speaking of your preferences, may I ask what is your favorite time of the year? Why is it your favorite? Is there a particular food that you and your family share together during that occasion? Would you like to share how is it being prepared?

Many countries around the world celebrate Thanksgiving Day differently. Thanksgiving means showing gratitude or appreciation to someone or something for doing something good. Part of this festivity are the traditional food in commemorating the event.

Collaborative Work - 4PICs- 2words

Let's play something similar to a game called 4pic-1word, but ours will be called 4Pics-2words.

Inside the envelope is a group of 4 pictures that describe a particular country's Thanksgiving Day celebration with the 4th picture as hint for the country's name.

Tasks :

1.Give the name of the country by writing it on the incomplete statement below the picture.

2.Guess the dish or delicacy usually eaten during the event by arranging the jumbled letters.

3.Answer the questions written after the listed ingredients.
(The class will be divided into 3 groups namely – Thanksgiving Group, Food Good, and Holiday Group) for synchronous class)

LESSON PROPER

DISCUSSION (WHAT IS IT/TALAKAYIN)

Thanksgiving Day in _____
E T K U R Y _____

Chuseok in _____
N E O S G Y O P N _____

Thanksgiving Day in _____
U F U F _____

LESSON PROPER

DISCUSSION (WHAT IS IT/TALAKAYIN)

Ingredients for Songpyeon

Basic White Dough (for 16 Songpyeon)
2 cups wet rice powder thawed if frozen
1/4 cup boiling hot water
Green dough (for 16 Songpyeon)
2 cups frozen rice powder thawed if frozen
1/8 cup matcha/green tea powder

Filling: fills about 16 Songpyeon
1/3 cup roasted sesame seeds
1 1/2 tablespoons sugar
1 tablespoon honey
 pinch salt

If you will put filing for both the basic white and green dough for Songpyeon, will the ingredients for the filling be enough? Why ? If your answer is No, how many cups of roasted sesame seeds and tablespoons of sugar are needed? Do you think you can replace sugar with honey for this recipe?

Ingredients for Fufu

4 cups water or more as need
2 cups yams or cassava
1 teaspoon salt

Imani, an African Grade 10 student, will prepare fufu to match the pepper soup for the family's dinner on Thanksgiving Day. If she has only 3/4 cups of cassava available at home, how many more cups of cassava does she need?

What will happen if you will not measure and follow properly the amount of ingredients to be used in any recipe that you will prepare? Do you think Fufu can be part of your meal too? Based on the ingredients, can it be a good substitute for your junk food cravings?

Roasted Turkey

1 16 lb. turkey
1/4 cup salted butter softened
1 teaspoon dried thyme
1 teaspoon dried sage
1 1/2 teaspoons salt
1 cup chopped celery stalk
2 sprigs fresh rosemary
2/3 teaspoon ground black pepper
1 cup water

How many teaspoons of dried spices, salt and pepper are needed for a 16 pound turkey? What do you think will happen if you put too much salt and pepper in the recipe?

LESSON PROPER

DISCUSSION (WHAT IS IT/TALAKAYIN)

Discussion and presentation of the answers on the tasks given.

Example 1 Chuseok in Korea

Chuseok is one of Korea's biggest festivals and holidays. It's referred to as "Korean Thanksgiving". During Chuseok, people celebrate their ancestors, show their gratitude to them, and spend time with their families. It is a 3-day long celebration that people enjoy with traditional Korean games, vibrant traditions, customs, and a delicious array of dishes.

Songpyeon is a must-have Chuseok delicacy. These little rice cakes are stuffed with sweet fillings.

Refer to the problem written inside the rectangular box – Ingredients for Songpyeon

- What is asked in the problem?
- What are the given information or data that will help you solve the problem?
- What operation is needed given that data?
- How will write you mathematics sentence using the data and operation/s needed?

1/3 + 1/3 = N N = cups of sesame seeds needed to make the fillings enough for the 2 batches of dough

1 1/2 + 1 1/2 = M M = the amount of sugar needed

Solutions :

1/3 + 1/3 = N
(In adding similar fractions, add the numerators then copy the same denominator)

2/3 = N
So, there is a need for 2/3 cup of sesame seeds for the filling of the 2 batches of dough.

1 1/2 + 1 1/2 = M
(In adding mixed fractions with similar fractions, add the whole number first then, then the fractions. Check if the answer is already reduced in it's lowest term)

$$1 + 1 + (1/2 + 1/2) = M$$
$$2 + 2/2 = M$$
$$2 + 1 = 3$$

The amount of sugar needed for the filling is 3 tablespoons

Explain your answer for the last question, why or why not replace sugar with honey in the ingredients? Do you think there will be an effect in the taste or will it affect your health since these are sweeteners?

LESSON PROPER

DISCUSSION (WHAT IS IT/TALAKAYIN)

Discussion and presentation of the answers on the tasks given.

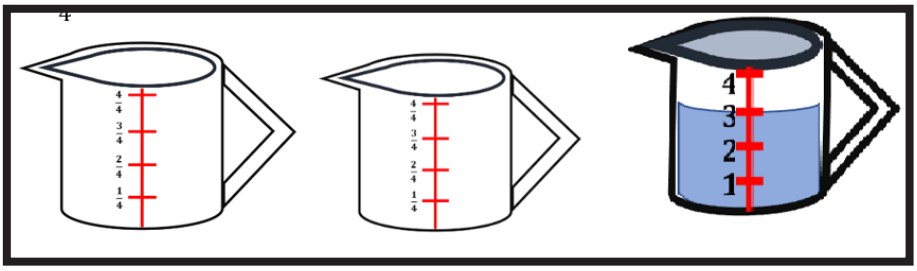
Example 2 Thanksgiving Day in Liberia

Liberia is an African nation situated in the western region. The country holds the Thanksgiving celebration on the first Thursday of every November. It started in the year 1820. Fufu is one of the traditional staple dishes of Africans.

Refer to the problem written inside the rectangular box – Ingredients for Fufu

You may visualize or illustrate your solution after analyzing the problem using fraction regions.

$2 - 3/4 = N$



Answer Imani needs 1 1/4 cups more of cassava to prepare fufu

Example 3 Thanksgiving Day in USA

Originating from a harvest holiday, the United States of America (USA) observed Thanksgiving Day as a day for the people to give thanks for what they have. Families and friends get together for a meal, which traditionally includes roasted turkey. In some cities and towns, there are parades during the Thanksgiving weekend. Roasted Turkey is a must have for dinner during Thanksgiving Day in the USA.

Refer to the problem written inside the rectangular box – Ingredients for Roasted Turkey

Do you think you can answer the questions given easily using visualization? What kind of fractions are given in the problem? In adding or subtracting fractions, what do we need to do first if there are dissimilar fractions? Yes, you should get the LCD or the least common denominator first before making addition and subtraction possible.

Solutions:

Add the whole numbers first then rename the dissimilar fractions to make them similar using LCD.

$1 + 1 + 1\,1/2 + 2/3 = N$ where N = total amount of dried spices, salt and pepper in teaspoons

$(1 + 1 + 1) + (1/2 + 2/3) = N$
$3 + 3/6 + 4/6 = N$
$3 + 7/6 = N$
(7/6 is an improper fraction, so change it to its mixed form)
$3 + 1\,1/6 = N$
$4\,1/6 = N$

LESSON PROPER

DISCUSSION (WHAT IS IT/TALAKAYIN)

What could be the effect to your health when you eat too much salty foods? Is it good to just follow the suggested amount in the ingredients whenever we want to prepare more or less than that of the recipe? Why? How will this affect you daily activities?

Additional Example:

Jose, Henel and Randy are GCED learners. All of them love reading books about food and celebrations around the world. Jose likes reading printed books and has a monthly rate of 8 7/10 hours reading those. Henel chose reading e-books rather than the printed ones. He spent 14 4/25 hours reading while Randy's rate in a month is 12 17/25 hours for audio books. How many hours did they spend reading books? Who reads the least? The most number of hours? By How many hours?

Understand

What is asked : hours spent by the those who read e- books and audio books altogether than those who preferred reading printed books?

What are the given facts : 8 7/10 hours for reading printed books , 14 4/25 hours for e-books and 12 17/25 hours for audio books

What is the hidden question : How many hours were spent for reading e-books and audiobooks altogether. The word clue is altogether and more

What do you need to do first : Add 14 4/25 and 12 17/25 then subtract 8 7/10 from the sum

Plan : What operation/s will you use to solve the problem? Addition and subtraction

Solve : (14 4/25 + 12 17/25) - 8 7/10 = N
Solutions can be done creatively.
The answer is 18 7/50 . Here are the solutions that can be used.

A. Whole Numbers then Fractions

Separate the whole numbers 14 and 12 then find the sum

14 + 12 = 26

Add the fractions 4/25 + 17/25 = 21/25
(the answer is already in the lowest term)

Add the sum of the whole numbers and the fraction

26 + 21/25 = 26 21/25

Subtract the mixed fraction from the sum

26 21/25 - 8 7/10

since the fractions have unlike denominators change them to similar fractions first before subtracting

21/25 = 42/50
7/10 = 35/50

LESSON PROPER

DISCUSSION (WHAT IS IT/TALAKAYIN)

Rename the mixed fractions using the similar fractions
42/50
- 8 35/50

18 7/50 hours spent more reading e-books and audio books altogether than printed books.

B. Using LCD

Change all the fractions of the 3 given mixed numbers to similar fractions using LCD. The denominators are 25, 25 and 10.

Using listing method:

25 – **50**, 75, 100

10 – 20, 30, 40, **50**

The LCD is 50

(14 4/25 + 12 17/25) - 8 7/10 = N

4/25 = 8/50
17/25 = 34/50
7/10 = 35/50
Perform the operation indicated in the parenthesis first.
(14 8/50 + 12 34/(50)) – 8 35/50 = N

26 42/50 - 8 35/50 =

18 7/50 hours spent more reading e-books and audio books altogether than printed books.

Take note that the final answer for solutions A and B are just the same.

Have you tried reading a similar book or magazine as with the 3 GCED learners?

How about watching a TV program or you tube food and travel vlog?

Isn't great to know some of the traditional food of different countries?

LESSON PROPER

GENERALIZATION (WHAT I HAVE LEARNED/ISAISIP)

Did you enjoy learning about the different local and international foods showcased in this module? Do you think you and your family can try some of those, make similar version, and even create your own recipes using the skills in addition and/or subtraction of fractions? State what you have learned by answering the following questions:

- What are the strategies and steps to follow in solving Mathematical problems involving routine and non-routine problems involving addition and/or subtraction of fractions?

- How important is it to follow the steps in solving routine and non-routine Math problems involving addition and/or subtraction of fractions?

- How important is the use of various strategies and techniques in making solutions to some real-life situations or problems such as in preparing traditional foods during special occasion?

LESSON PROPER

REFLECTION (WHY IS IT MEANINGFUL AND RELEVANT/ISAPUSO)

Below are some of the holidays celebrated in the Philippines.

Match the occasion with the food. Then answer the questions that follow.

Chinese New Year		Bibingka
Good Friday		tikoy
Christmas		Sapin-Sapin

What is common among this food? Round shape.

Can you divide them equally?

Why do you usually divide food equally when shared among others?

What do you think are the reasons for preparing variety of foods in celebrating special occasions like Christmas and New Year?

Why are Christmas and New Year celebrated across countries?

If you have a Muslim friend who lives nearby and who does not celebrate Christmas, will you share to him or her the food that your family prepared for the occasion? Why?

LESSON PROPER

APPLICATION (WHAT I CAN DO/ISAGAWA)

Puto is one of the staple foods in the Philippines and is part of many special occasions. Like fufu and songpyeon, it can be eaten with other dishes too.

Below are two activities. Choose one and submit it with pictures showing you are doing the task.

Activity 1 – Cook your own puto (steamed rice cake)

With the help of you parents, cook a round steamed rice cake or puto following the recipe below. Since the recipe is good for at least 6 persons, you may increase or decrease the amount of ingredients based on the number of family members or relatives you want to share the finish product with.

Divide the finished product and share it among the family members.

Take a group photo.

Ingredients :

3 cups rice flour
1 1/4 brown sugar
1 1/2 cup evaporated milk
3 tbs baking powder
4 eggs
1 tablespoon margarine
Optional toppings : salted eggs , cheese

Procedure :

Combine the dry ingredients, baking powder and brown sugar in a bowl.
Pour the evaporated milk and beaten eggs into the dry mixture.
Mix well.
Cover the bowl with the puto batter with plastic and set aside for 15 minutes.
After 15 minutes, grease the steam pan with margarine
Pour the puto batter into the pan and steam for 30 minutes. (optional add some salted egg and grated cheese as toppings)
Served hot or as desired.

You may watch the video below for the actual demonstration on how to cook puto:

https://www.youtube.com/watch?v=ZzDPLO7cgp0

LESSON PROPER

APPLICATION (WHAT I CAN DO/ISAGAWA)

Activity 2 - Design your Own Puto Cake

If you do not have the ingredients at home, you may accomplish this worksheet instead.

·Below is a picture of a cooked round puto cake.

·Divide them equally into parts according to the number of family members you have.

·Show and label each fraction.

·Label the whole and the parts being shared to family members using fractions.

·Add some toppings and show your creativity in designing your own puto cake using any coloring material available at home.

Don't forget to SHARE YOUR EXPERIENCE WHILE DOING THE ACTIVITY BY WRITING A SHORT PARAGRAPH TOGETHER WITH YOUR PICTURES.

ASSESSMENT

TAYAHIN

Directions:

Analyze and solve each problem then choose the letter of the correct answer.

Joyce had a chance to meet her balikbayan friend, Laila from Dubai, United Arab Emirates. As they were looking for some food to dig in, Laila was surprised to see a food stall selling Biryani, an Indian dish made with highly seasoned rice and meat, fish, or vegetables. Joyce wanted to treat Laila so she ordered 2 servings of the dish. Joyce liked the taste of Biryani and asked for its recipe from Laila. Here's how Laila prepares it herself.

Ingredients:	
1 kg meat on bones	$\frac{1}{2}$ cup chopped mint leaves
$\frac{3}{4}$ kg rice, basmati	$\frac{1}{5}$ kg plain yogurt
$\frac{1}{4}$ kg onions	1 cup cooking oil
$\frac{1}{4}$ kg tomatoes	50 grams biryani mix
$\frac{1}{2}$ cup chopped cilantro	$\frac{1}{2}$ cup water

1. How many kilograms of onions and tomatoes are needed in the biryani recipe ?
3/4 kg B. 1/4 kg C. 1/2 kg D. 1 kg

2.If Joyce will cook biryani with 2 kilograms of meat, how many kilograms of rice and plain yogurt altogether are needed?
1 kg B. 1 5/10 kg C. 1 9/10 kg D. 2 1/10 kg

Binaki, a known delicacy in Northern Mindanao, was originally a dessert in the province of Bukidnon. To prepare this steamed cake recipe, you will need 4 pcs Sweet Corn (fresh with cob), 1/4 cup margarine , 1/4 cup powdered milk, 1/3 cup sugar and 3/4 cup glutinous rice flour.

3. What is the total amount of ingredients needed to be mixed with the sweet corn?
19/14 B. 1 3/14 C. 1 5/12 D. 1 7/12

After attending a Team Building event in a hot spring resort in Los Bańos, Laguna, Angelica's father went home with two boxes of 'The Original" buko pie. He sliced them equally into eights. He gave one slice to each of his four children, got two slices for him and his wife and share the rest to their neighbors.

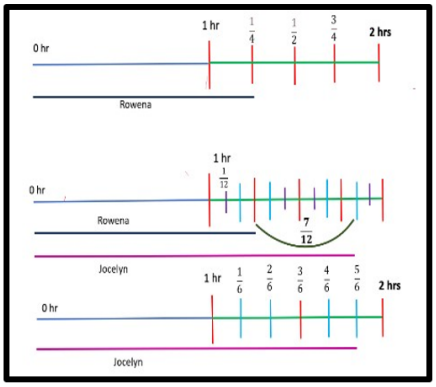
4. What part of the buko pie did Angelica's father share to his neighbors?


A. 1 3/4 B. 1 1/4 C. 2/8 D. 1/4

Rowena and Jocelyn are barangay workers and members of the community cycling club in Tagaytay City. They encourage others in cycling for it has benefits to health and environment as well. Everyday, they bike from their residence to the barangay hall. Rowena spends 1 1/4 hours biking while Jocelyn needs 1 5/6 hours. How much longer does Jocelyn take to bike than Rowena to get to the barangay hall?

5. Which among the illustrations below shows the correct solution to find the answer to the problem.

A.



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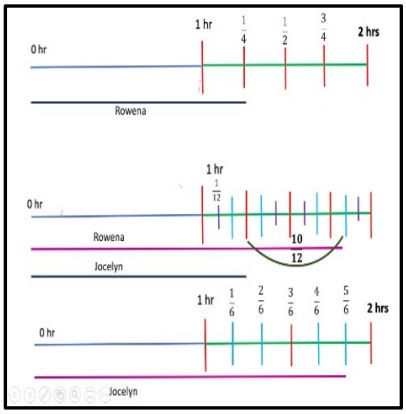
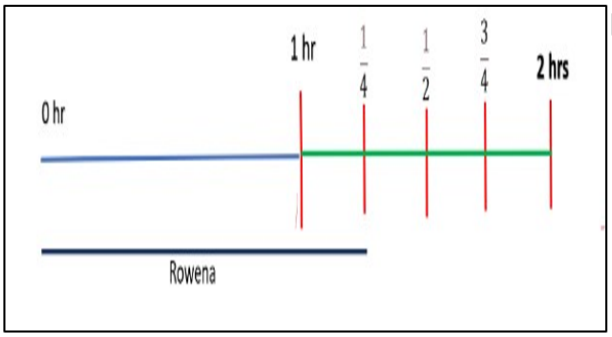
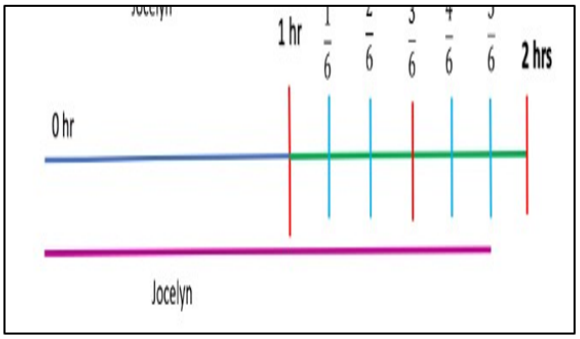


C.



D.



ANSWER KEY

SUSI SA PAGWAWASTO

Activity (What's New/Tuklasin)

1. The Boy Who Cried Wolf
2. Jonah and The Big Fish
3. Possible answers: They have read the story "The Boy Who Cried Wolf" before during their English class.
   They like the characters in the story "The Boy Who Cried Wolf"
4. 6 pupils, 6/(20) or 3/(10)
   10/(20) or 1/(2)

Pre-Test (What I Need To Know/Subukin)

1. D
2. B
3. A
4. B
5. A

Review (What's In/Balikan)

1. 7/8 2. . 3/4 3. 1/12 4. 3 4/5 5. 1 2/3

Assessment (Tayahin)

1. C
2. C
3. D
4. B
5. A

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