









MATHEMATICS 2ND QUARTER – Module 5: VISUALIZING ADDITION & SUBTRACTION OF FRACTIONS



Name of Learner:

Grade & Section:

Name of School:

Grade 4 Alternative Delivery Mode Quarter 2 - Module 5: VISUALIZING ADDITION & SUBTRACTION OF FRACTIONS

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	Development Team of the Module
riter's Name:	Wenivieve R. Abil – T – IIILabason CS, Labason Dist. Marylou S. Lagod-T-III, Labason CS, Labason Dist.
iewer's Name:	Esmael K. Yusoph, Division Mathematics Supervisor
Management Team:	DR. MA. LIZA R. TABILON - SDS
	JUDITH V. ROMAGUERA, CESE – ASDS
	MA. JUDELYN J. RAMOS, CESE – ASDS
	ARMANDO P. GUMAPON, CESE - ASDS
	LILIA E. ABELLO, EdD. – CID Chief
	EVELYN C. LABAD – EPS, LRMS
	Esmael K. Yusoph – EPS, Mathematics
	PSDS Mary Jane P. Acedo, Ed D.
	Cherry C. Amplayo, ESP II

For inquiries or feedback, please write or call: Department of Education Schools Division of Zamboanga del Norte Capitol Drive, Estaka, Dipolog City Fax: (065) 908 0087 | Tel: (065) 212 5843, (065) 212 5131 zn.division@deped.gov.ph



What I Need to Know (Alamin)

In this module, you will learn about Visualizing Addition and Subtraction of Similar and Dissimilar Fractions and Visualizing Subtraction of a fraction from a whole number (M4NS-IIf-82.2). You will be able to enjoy visualizing fractions in this lesson. Illustrations used to represent each fraction are made understandable and easy.

Study the Illustration of the Problem.



Let us draw a model.

The boys painted $\frac{1}{4}$ of the wall. The girls painted $\frac{2}{4}$ more. What part of the whole wall did the children finish painting altogether? Find: $\frac{1}{4} + \frac{2}{4}$



The region represents the wall. Three of four equal parts of the region are shaded

So, $\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$.

Answer: The children finished painting $\frac{3}{4}$ of the wall.



Lito has a piece of bamboo $\frac{4}{5}$ m long. From this, he cut a piece of $\frac{1}{5}$ m long. How long is the remaining piece?

Find: $\frac{4}{5} - \frac{1}{5}$

4 5

1 5

Let us use two unit regions to show subtraction or similar fractions.



Three parts is deleted. Three parts are left. So, $\frac{4}{5} - \frac{1}{5} = \frac{3}{5}$

Answer: The remaining piece is $\frac{3}{5}$ m long.

B. Now, let us try to visualize addition and subtraction of dissimilar fractions. Read the problem.

Ford had $\frac{9}{12}$ meter of wood for his picture frame. His father gave him $\frac{2}{6}$ meter more. How many meters of wood does he have now?





 $\frac{9}{12} + \frac{4}{12} = \frac{13}{12} = 1\frac{1}{12}$

Another way is to use the least common denominator (LCD).



C. Raphael has a whole banana cake. He sliced it into 8 equal parts. He gave 4 parts to his brother. What part of the cake was left to him?







To solve the problem: Rewrite 1 whole as $\frac{8}{8}$

 $1 = \frac{8}{8} \frac{8}{8} - \frac{4}{8} = \frac{4}{8}$ When we change $\frac{4}{8}$ to lowest term, we will get $\frac{1}{2}$ Thus, $\frac{1}{2}$ of the cake was left to Raphael.



A. Josephine and her mother bought a cake near Sto. Niño Church. They divided the cake into eight equal parts. They ate $\frac{2}{8}$ and brought home the rest. What part of the cake did they bring home?



C. Study the illustration and answer the following exercises.



2. If $\frac{5}{12}$ is subtrahend from 5, what is the difference?

POST ASSESMENT

A. Directions: Study the illustration that visualizes the addition and subtraction of similar fractions. Choose the best answer.







References:

Chingchuaco, Ofelia. *Soaring High with Math Grade 4 (Textbook and Manual)*.Philippines: Saint Matthew's Publishing, 2019. Tabilang, Alma., et.al. *Mathematics 4*. Philippines: LEXICON PRESS, INC., 2015.