4

Mathematics 4

Microlearning Module

QUARTER 2 – Module 11

Identifying Proper Fractions, Improper Fractions and Mixed Numbers

Microlearning Module

REGION XII - DIVISION OF SULTAN KUDARAT

Mathematics 4
Microlearning Module (MLM)
Quarter 2 – Module 11: Kinds of Fractions
First Edition, 2024

Published by the Department of Education- RO XII, Division of Sultan Kudarat

Development Team

Writer **:** John Paul Art G. Echavaria

Editor **:** Feberick O. Quitor

Evaluator **:** Marlou B. Faeldonia

Cover Art Designer: Jann Mark P. Oriel

Management Team: Crispin A. Soliven Jr., CESE – Schools Division Superintendent
Meilrose B. Peralta EdD – Asst. Schools Division Superintendent
Ismael M. Ambalgan – Chief, CID
Sheryl L. Osano – EPS, LRMS
Rodolfo B. Bermudo, Jr. EdD – EPS, Mathematics

Printed in the Philippines by

Department of Education – Region XII, Division of Sultan Kudarat

Office Address: Kenram, Isulan, Sultan Kudarat
Telefax: 064-471-1007
E-mail Address: depedsk.r12@deped.gov.ph

MICROLEARNING MODULE

Name: _____Grade & Sec: _____ Score: _____
Subject: Mathematics Quarter: 2 MLM No. 11
Teacher: _____
Competency: Identify proper fractions, improper fractions and mixed numbers.

A. Look Back!

Directions: Read and understand the problems carefully. Encircle the letter of the correct answer.

1. Mario runs a race that is 5 kilometers long. How many meters does he run in the race?

a. 500 meters c. 5,000 meters
b. 15,000 meters d. 50,000 meters

2. Amy's family has lived in a house for 12 years and 7 months. They want to hold a Thanksgiving Party to celebrate 20 years of living in the house. How many months will they have to wait until the party?

a. 89 months c. 90 months
b. 91 months d. 92 months

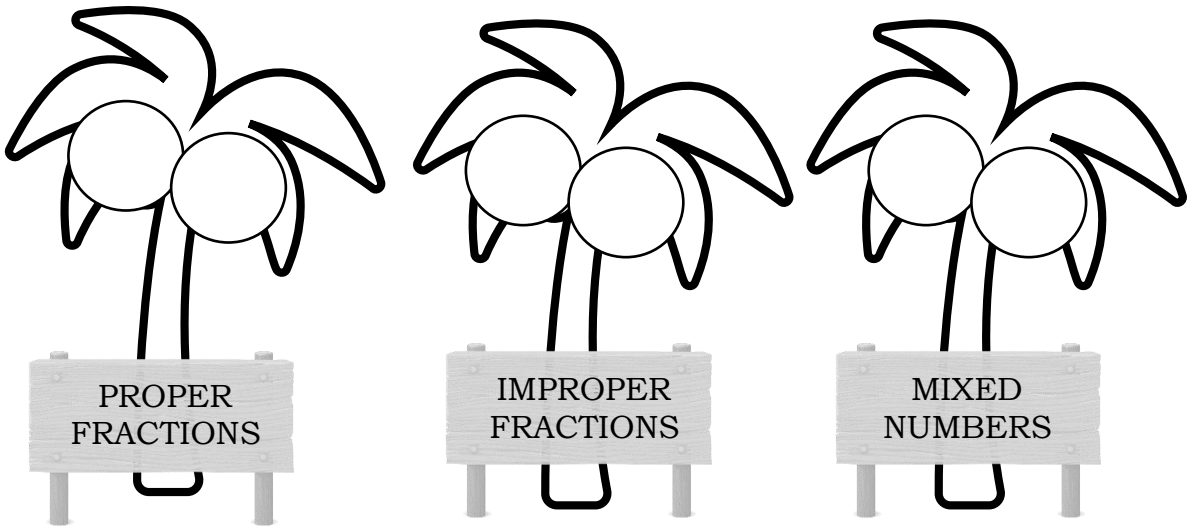
3. My grandmother needs 500 cm of lace for my dress. How many meters of lace does she need to buy?

a. 5 meters c. 15 meters
b. 25 meters d. 50 meters

B. What's New?

Directions: Place the following fractions in the correct tree. Classify them as proper fraction, improper fraction, or mixed number. Write your answer using the coconut fruit provided.

$1\frac{4}{5}$	$\frac{9}{10}$	$\frac{7}{4}$	$\frac{1}{5}$	$8\frac{9}{10}$	$\frac{6}{5}$

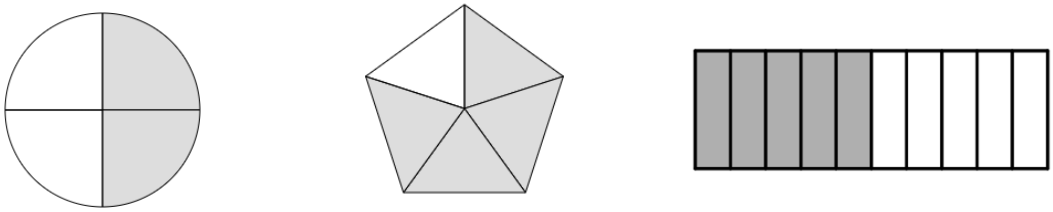


C. What Is It?

Mrs. Cruz served 5 of the 10 equal parts of her ube biko tray to her guests. What fraction represents the part she served?

In the problem above, 5 of the 10 equal parts is expressed as $\frac{5}{10}$. The fraction $\frac{5}{10}$ refers to the part served to the guests.

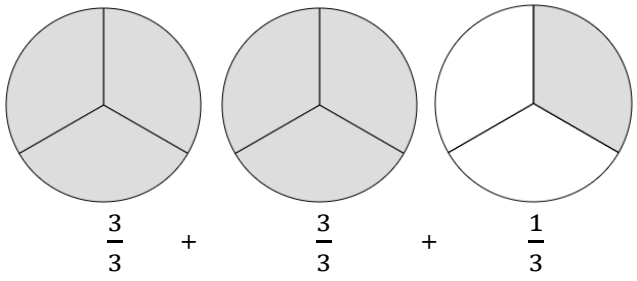
Study these fractions:



$\frac{2}{4}$ $\frac{4}{5}$ $\frac{5}{10}$

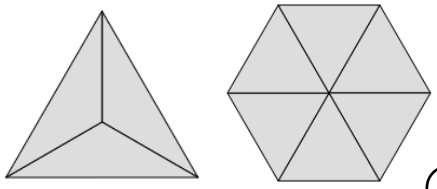
The fractions $\frac{2}{4}$, $\frac{4}{5}$, and $\frac{5}{10}$ are less than one whole. The numerators are less than the denominators. These fractions are called *proper fractions*.

Here are other fractions:



$\frac{3}{3} + \frac{3}{3} + \frac{1}{3} = \frac{7}{3}$

The numerator is bigger than its denominator.

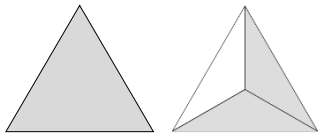


$\frac{3}{3}$ $\quad$ $\frac{6}{6}$

The numerator is equal to its denominator. The fraction is equal to 1.

The fractions $\frac{7}{3}$, $\frac{3}{3}$, and $\frac{6}{6}$ are called *improper fractions*. The numerator is either equal to or bigger than its denominator.

Examine these fractions:



$1 + \frac{2}{3} = 1\frac{2}{3}$ ← *mixed number*

whole number $\quad$ *fraction*

The fraction $1\frac{2}{3}$ is called *mixed number*. It is a whole number and a fraction written together.

LET US SUMMARIZE

- A *proper fraction* is less than one whole. Its numerator is smaller than its denominator.
- An *improper fraction* is equal to or greater than one whole. Its numerator is either equal to or bigger than its denominator.
- A *mixed number* is a whole number and a fraction written together.

D. Let's Try!

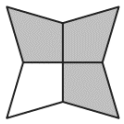
Directions: Classify each given fraction. In the blank before the number, write **PF** if it is a Proper Fraction, **IF** if it is an Improper Fraction and **MN** if it is a mixed number.

_____1.) $\frac{6}{10}$ _____ 2.) $\frac{7}{2}$ _____3.) $\frac{10}{10}$

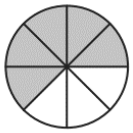
_____4.) $7\frac{3}{8}$ _____ 5.) $11\frac{5}{6}$

E. Let's Evaluate!

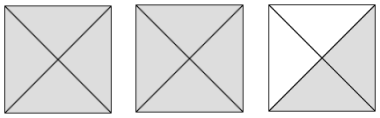
A. Directions: Study the given fraction models. Determine whether each is a proper fraction, an improper fraction, or a mixed number. Write your answer in the blank provided.

1. 

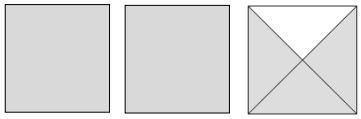
_____

2. 

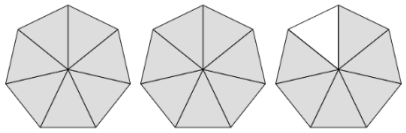
_____

3. 

_____

4. 

_____

5. 

_____

B. Directions: Identify the type of each fraction listed below. Write Proper Fraction, Improper Fraction, or Mixed Number on the line provided.

6.) $\frac{7}{8}$ _____

7.) $\frac{13}{5}$ _____

8.) $\frac{9}{8}$ _____

9.) $6\frac{1}{5}$ _____

10.) $7\frac{3}{2}$ _____

F. References

Creag, Herminia C. 2022. *Real-Life Mathematics 4 Second Edition*. Quezon City, Philippines: ABIVA Publishing House, Inc.

DISCLAIMER

This Microlearning Module has been developed by DepEd - Division of Sultan Kudarat for educational purposes only. It is designed to supplement classroom instruction and should not be used as the sole source of information. Teachers are encouraged to exercise their professional discretion and tailor the content to suit their students' individual needs.

REGION XII - DIVISION OF SULTAN KUDARAT

Answer Key

A. Look Back!

1. C
2. B
3. A

B. What's New?

Proper Fractions

1. $\frac{9}{10}$ 2. $\frac{1}{5}$

Improper Fractions

1. $\frac{7}{4}$ 2. $\frac{6}{5}$

Mixed Numbers

1. $1\frac{4}{5}$ 2. $8\frac{9}{10}$

D. Let's Try!

1. PF
2. IF
3. IF
4. MN
5. MN

E. Let's Evaluate!

A.	B.
1. Proper Fraction	6. Proper Fraction
2. Proper Fraction	7. Improper Fraction
3. Improper Fraction	8. Improper Fraction
4. Mixed Number	9. Mixed Number
5. Improper Fraction	10. Mixed Number