



Mathematics 4 Microlearning Module

QUARTER 2 – Module 12 Rewriting Improper Fractions into Mixed Numbers, and Vice Versa





REGION XII - DIVISION OF SULTAN KUDARAT

Mathematics 4 Microlearning Module (MLM) Quarter 2 – Module 12: Rewriting Improper Fractions into Mixed Numbers, and Vice Versa First Edition, 2024

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MICROLEARNING MODULE

Name:	Grade & Sec:	Score:				
Subject: <u>Mathematics</u>	Quarter: <u>2</u>	MLM No. 12				
Teacher:						
Competency: Rewrite improper fractions into mixed numbers, and vice						
versa						

A. Look Back!

Directions: Evaluate whether the given statement is true or false. Check YES if it is true and NO if it is false.

1. $1\frac{9}{4}$ is a mixed number.	O YES O NO
2. $\frac{7}{8}$ is an improper fraction.	O YES O NO
3. $\frac{9}{2}$ is a proper fraction.	O YES O NO
4. $\frac{2}{2}$ is an improper fraction.	O YES O NO
5. $\frac{2}{5}$ is a proper fraction.	O YES O NO

B. What's New?

Directions: Using the given illustration, fill in the table with the correct answer to complete it.

Improper Fraction	Illustration	Mixed Number
	$\bigcirc \bigcirc $	

C. What Is It?

Read the problem and study the solution below.

Carlo will serve $\frac{9}{4}$ bibingka to his friends. How many whole bibingka and fractional part of a bibingka does he have?

You need to change $\frac{9}{4}$ to mixed number by dividing 9 by 4.

To rewrite an improper fraction to a mixed number, follow these

steps:

- 1. Divide the numerator by the denominator.
- 2. Write the quotient as the whole number part and use the remainder as the numerator of the fraction part.



So, Carlo has 2 whole bibingka and $\frac{1}{4}$ as shown in the illustration.

Other examples:

a.
$$\frac{7}{3}$$
 $7 \div 3 = 2 \text{ r. 1 or } 2\frac{1}{3}$
b. $\frac{16}{8}$ $16 \div 8 = 2$
c. $\frac{15}{10}$ $15 \div 10 = 1 \text{ r. 5 or } 1\frac{5}{10}$

How do you change $3\frac{2}{5}$ to an improper fraction? Look at the illustration below.



The 3 shaded circles represent the whole number and the two shaded parts of the whole represent the **fraction**.

There are $\frac{17}{5}$ in all.

To rewrite a mixed number to an improper fraction, follow these

steps:

- 1. Multiply the whole number by the denominator.
- 2. Add the answer to the numerator and write it over the same denominator.

$$\begin{array}{r} & & \\ +3 & 2 \\ \hline 5 & 5 \end{array} = \frac{(5x3)+2}{5} = \frac{15+2}{5} = \frac{17}{5} \end{array}$$

Other examples:

a.1
$$\frac{2}{3}$$
 $\left(\frac{(3\times1)+2}{3} = \frac{5}{3}\right)$

b. $2\frac{3}{10}$ $\frac{(10\times2)+3}{10} = \frac{23}{10}$

LET US SUMMARIZE

- To rename an improper fraction as a mixed number, divide the numerator by the denominator. Write the quotient as the whole number part and the remainder as the numerator of the fraction part.
- To rename a mixed number as an improper fraction, multiply the whole number by the denominator. Add the answer to the numerator and write it over the same denominator.

D. Let's Try!

Directions: Match each improper fraction in Column A to its equivalent mixed number in Column B. Write only the letter of your answer in the blank provided before the number.

Column A	Column B
$1. \frac{13}{3}$	a. $8\frac{2}{3}$
<u>2. $\frac{29}{2}$</u>	b. 5 $\frac{3}{7}$
$\3. \frac{19}{5}$	c. 3 $\frac{4}{5}$
$4. \frac{38}{7}$	d. 14 $\frac{1}{2}$
5. $\frac{26}{3}$	e. 4 1 3

E. Let's Evaluate!

A. Directions: Express each of the following improper fractions as mixed numbers. Write your answers in the blank provided.



B. Directions: Rewrite each mixed number as an improper fraction. Write your answers in the blank provided.

6.
$$8\frac{2}{5} =$$
 7.4 $\frac{8}{10} =$ 8. $9\frac{3}{4} =$ 9. $12\frac{2}{10} =$ 10. $10\frac{7}{8} =$

F. References

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

Cadano, Maricel H. *Self-Learning Kit Mathematics 4*. Negros Oriental, Philippines: DepEd Schools Division of Negros Oriental

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Answer Key A. Look Back! 1. YES 2. NO 3. NO 4. YES 5. YES **B. What's New?** 1. $\frac{8}{3}$, $2\frac{2}{3}$ 2. $\frac{20}{6}$, $3\frac{2}{6}$ 3. $\frac{17}{4}$, $4\frac{1}{4}$ **D. Let's Try!** 1. E 2. D 3. C 4. B 5. A E. Let's Evaluate! E. Let's Evalu A. B. 1. $1\frac{7}{8}$ 2. $2\frac{1}{10}$ 3. $12\frac{2}{3}$ 4. $3\frac{1}{4}$ 5. $1\frac{13}{100}$ $6. \frac{42}{5} \\ 7. \frac{48}{10} \\ 8. \frac{39}{4} \\ 9. \frac{122}{10} \\ 10. \frac{87}{8}$