



# **Mathematics 4 Microlearning Module**

# **QUARTER 3 – Module 5**

**Determining Equivalent Fractions** 





**REGION XII - DIVISION OF SULTAN KUDARAT** 

#### Mathematics 4 Microlearning Module (MLM) Quarter 3 – Module 5: Determining Equivalent Fractions. First Edition, 2024

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# **MICROLEARNING MODULE**

Name:		Grade & Se	ec: _	Score:	
Subject <u>:</u>	Mathematics 4	Quarter:	3	MLM No5	
Teacher: _					
Competency: Determine equivalent fractions					

# A. Look Back!

1. Compare the following fractions by writing the symbols >, <, or = on the blank.

a. 
$$\frac{2}{3} - \frac{4}{7}$$
  
b.  $\frac{1}{2} - \frac{5}{8}$   
c.  $\frac{3}{5} - \frac{4}{5}$   
d.  $\frac{2}{3} - \frac{2}{5}$   
e.  $\frac{4}{8} - \frac{8}{16}$ 

2. Make 3 examples of equal fractions by using models of grid, cubes or blocks, money, and number lines. Draw models inside the box.

# B. What's New?

Read the situation and answer the following questions below. Write your answer in the blank.

Kaye and Rose made their projects in Math. Kaye colored  $\frac{1}{2}$  part of the square while Rose colored the remaining  $\frac{4}{8}$  parts of the square. Rose believed she had colored more parts than Kaye. Kaye insisted that they had colored the same parts of the square. Who is correct?

- 1. What did Kaye and Rose do? \_\_\_\_\_
- 2. What kind of learners are they? \_\_\_\_\_
- 4. Who among them is correct? Why? \_\_\_\_\_
- 5. Why is it important to make your project? \_\_\_\_\_\_

# C. What Is It?



#### **Equivalent Fractions**

- ✓ Have the same value, even though they may look different.
  Sometimes called equal fractions.
- ✓ Have different numerators and denominators, because when you multiply or divide both the top and bottom by the same number, the fraction keeps its value.

We can show it if have the same value by:

#### 1. Paper Folding Method

 $\frac{1}{2} \rightarrow$  Now, let us see the work of Kaye – fold the piece of

paper once, and color the other part, so we called this  $\frac{1}{2}$ .

 $\frac{4}{8}$   $\rightarrow$  Let us also see the work of Rose – fold the piece of paper three times, color 4 parts of it, so we called this 4/8.



The  $\frac{1}{2}$  of Kaye is equivalent to  $\frac{4}{8}$  of Rose.

#### 3. Cross-product Method

1	<u>4</u>
2	8

1 X 8 = 8 and 2 X 4 = 8

We get the same product of 8.  $\frac{1}{2}$  and  $\frac{4}{8}$  are equivalent fractions. So, the parts painted by Kaye and Rose are equivalent fractions.

# D. Let's try!

1. Find the cross-products of the given pairs of fractions below. Write your answer in the boxes provided:





Which pair have the same cross-products? They are equivalent or equal fractions.

2. Give an equal fraction for each given fraction by multiplying both the numerator and denominator by the same number. The first one is done for you.

Fraction	Multiplication Method
2	$\frac{2 \times 3}{2} = \frac{6}{6}$ therefore $\frac{2}{2} = \frac{6}{6}$
8	$8 \times 3 - 24$ , therefore $8 - 24$
1	
2	
1	
8	

# E. Let's Evaluate

Directions: Encircle the two fractions that are equivalent in every set of fractions below.

Example:





# Challenge!!!

Directions: Illustrate the given fractions with their equivalent fraction, then, present it to the class. The teacher will collect them afterward.



#### **F. References**

Tabilang, A.R., Ian Jay B. Arce, & R.V. Pascua, Mathematics 4 Learner's Materials 2015, Pasig City: Department of Education

Chingcuangco, Ofelia .G. (2019) Soaring High with Mathematics 4. Textbook. Valenzuela City: Saint Mathew's Publishing,

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# Mathematics G4\_Q3\_M5

# **Answer Key**

#### A. Look Back

- I. a. > II. Answers may vary.
  - b. < c. < d. > e. =
- **B.** What's New
  - 1. Kaye and Rose made their project
  - 2. answers vary
  - $3.\frac{1}{2}$

  - 4. Rose
  - 5. answers vary

#### C. Let's Try

1. a	$\frac{32}{25}$	2. Answers vary
b	$\frac{20}{16}$	
С	$. \frac{8}{9}$	
d	$\frac{12}{12}$	
e	$\frac{24}{24}$	

#### D. Let's Evaluate

1.  $\frac{4}{8}$  and  $\frac{1}{2}$ 2.  $\frac{5}{6}$  and  $\frac{10}{12}$ 4.  $\frac{2}{4}$ ,  $\frac{3}{6}$  and  $\frac{6}{12}$ 3.  $\frac{3}{9}$  and  $\frac{1}{3}$ 5.  $\frac{6}{12}$  and  $\frac{8}{16}$ 

#### Challenge

Answers may vary