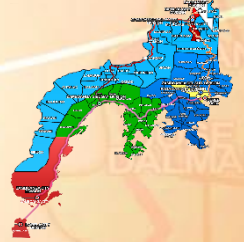




Republic of the Philippines
Department of Education
 Regional Office IX, Zamboanga Peninsula



Zest for Progress
 Zeal of Partnership

3

- JANUARY
Matuguhon
- FEBRUARY
Mahigugmaon
- MARCH
Matinabungan
- APRIL
Matinahuron
- MAY
Makapsay og Malimpyo
- JUNE
*Maablik og Masunod sa
Dhasalng Oras*
- JULY
Maantigo og Maabilidad
- AUGUST
*Maginhuhunoon
para sa Uban*
- SEPTEMBER
Madaginoton
- OCTOBER
Matinud-anon
- NOVEMBER
Masaligan
- DECEMBER
Maalampon

Mathematics

Quarter 3 - Module 2:

DISSIMILAR FRACTIONS



Name of Learner: _____

Grade & Section: _____

Name of School: _____



What I Need to Know

Mathematics is fun. Let's enjoy learning the activities in this lesson.

After going through this module, you are expected to:

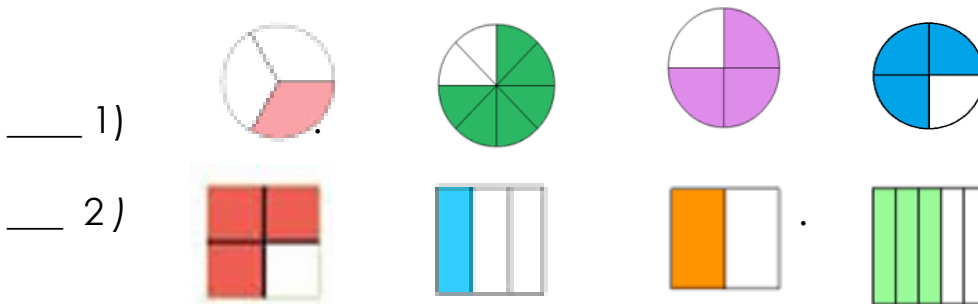
1. Represents, compares, and arranges dissimilar fractions in increasing and decreasing order.



What I know

Directions:

- I. Write **S** if the set of Fraction is Similar and **D** if it is Dissimilar.



- II. **Directions:** Choose the set of fractions that is **dissimilar fractions**.

Write the letter of the correct answer on the space provided.

- ___ 3) A) $\frac{2}{4}, \frac{1}{4}, \frac{3}{4}, \frac{4}{4}$ C) $\frac{1}{3}, \frac{2}{4}, \frac{3}{6}, \frac{1}{5}$
 B) $\frac{3}{6}, \frac{5}{6}, \frac{2}{6}, \frac{4}{6}$ D) $\frac{5}{7}, \frac{4}{7}, \frac{3}{7}, \frac{2}{7}$
- ___ 4.) A) $\frac{2}{7}, \frac{3}{7}, \frac{5}{7}, \frac{4}{7}$ C) $\frac{3}{9}, \frac{3}{7}, \frac{2}{5}, \frac{4}{6}$
 B) $\frac{1}{6}, \frac{2}{6}, \frac{4}{6}, \frac{3}{6}$ D) $\frac{2}{8}, \frac{6}{8}, \frac{3}{8}, \frac{5}{8}$

Compare the following fractions using $<$, $>$, $=$, \neq .

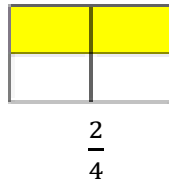
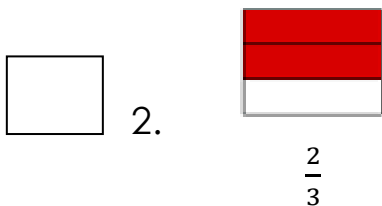
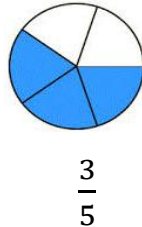
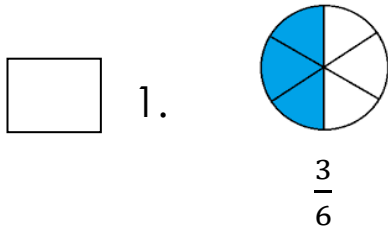
- ___ 5) $\frac{1}{4}$ ___ $\frac{1}{2}$ A. $>$ B. $<$ C. $=$ D. \neq



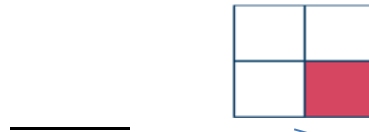
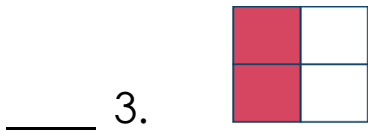
What's In

Directions: Answer each question carefully.

Put a check \checkmark mark if it is dissimilar fraction and **X** if it is not. (Refer to item no. 1-2).



Compare the following fractions using $<$, $>$, $=$, \neq



4. Arrange fractions from **least to greatest**.

$\frac{1}{3}$, $\frac{4}{5}$, $\frac{3}{5}$, $\frac{2}{3}$ _____

5. Arrange fractions from **greatest to least**.

$\frac{2}{4}$, $\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{6}$ _____



What's New

Directions: Read the problem and answer the following questions below.

Kathleen and her mother went to the market. She helped her in buying the following ingredients:

$\frac{3}{4}$ kilograms of chicken

$\frac{1}{2}$ kilograms of sayote

$\frac{1}{8}$ kilogram of ginger

$\frac{1}{4}$ kilogram of onions

Let us use some drawings to represent the weight of each ingredients.



$\frac{3}{4}$ kilogram
of chicken



$\frac{1}{2}$ of
sayote



$\frac{1}{8}$ kilogram
of ginger



$\frac{1}{4}$ kilogram
of onions

1. What recipe do you think Kathleen's mother plans to cook?

2. Do you also help your mother at home?

3. What household chores do you do to help your mother?



What is it

Take a look from presentation above. What have you notice with their numerators? denominators?

They have different denominators and that is called **Dissimilar fractions.**

How do you compare dissimilar fractions? Have them see this short way of comparing fractions.

Example: Compare $\frac{3}{4}$ and $\frac{1}{2}$

Let us do the Cross Product Method:

Step 1: Multiply the denominator of the first fraction with numerator of the second fraction. Place the product on the top of the second fraction.

$$3 \times 2 = 6$$

Step 2: Multiply the denominator of the first fraction with numerator of the second fraction. Place the product on the top of the second fraction.

$$1 \times 4 = 4$$

Step 3: The fraction with the greater /bigger product on top has greater/bigger value.

$$6 > 2$$

$$3 \text{ and } 1$$

$$4 \text{ and } 2$$

$$\text{So, } \frac{3}{4} \text{ is greater than } \frac{1}{2} \text{ or } \frac{3}{4} > \frac{1}{2}$$

By looking at the shaded part we can see the lightest first is $\frac{1}{8}$ kilograms of ginger, second is $\frac{1}{4}$ kilograms of onions next is $\frac{1}{2}$ kilograms of sayote and the heaviest is $\frac{3}{4}$ kilograms of chicken.

How will you arrange the fractions from lightest to heaviest? Heaviest to lightest?

Lightest to heaviest - $\frac{1}{8}, \frac{1}{4}, \frac{1}{2}, \frac{3}{4}$

Heaviest to lightest - $\frac{3}{4}, \frac{1}{2}, \frac{1}{4}, \frac{1}{8}$

Aside from drawing, how else can we determine the value of dissimilar fraction so we can arrange them in increasing /decreasing order.

By changing them to similar fraction using Least Common Denominator (LCD).



What's More

Activity 1:

Directions: Compare the following fractions using the symbol $>$, $<$, $=$, or \neq .

$$\begin{array}{l} 1) \quad \frac{3}{5} \quad \underline{\hspace{1cm}} \quad \frac{3}{4} \\ 2) \quad \frac{4}{8} \quad \underline{\hspace{1cm}} \quad \frac{1}{12} \\ 3) \quad \frac{4}{8} \quad \underline{\hspace{1cm}} \quad \frac{9}{8} \end{array}$$

Activity 2:

Directions: 3.1 Arrange the fractions in **ascending order**.

$$1) \quad \frac{1}{2}, \frac{2}{3}, \frac{3}{9}, \frac{1}{9} \quad \underline{\hspace{10cm}}$$

$$2) \quad \frac{4}{6}, \frac{2}{4}, \frac{1}{12}, \frac{4}{12} \quad \underline{\hspace{10cm}}$$

Directions: 3.2 Arrange the fractions in **descending order**.

$$1) \quad \frac{2}{5}, \frac{1}{2}, \frac{1}{8}, \frac{1}{4} \quad \underline{\hspace{10cm}}$$

$$2) \quad \frac{3}{4}, \frac{5}{6}, \frac{4}{8}, \frac{2}{8} \quad \underline{\hspace{10cm}}$$



What I Have Learned

Directions: Answer the following questions.

1. When do we say that fraction is dissimilar?

2.) How do we compare dissimilar fractions?

3.) How to order or arrange dissimilar fractions from least to greatest? Greatest to least?



What I Can Do

Directions: Draw and color the following given fractions.

_____ 1) $\frac{2}{6}$, $\frac{3}{5}$ _____

_____ 2) $\frac{3}{4}$, $\frac{1}{3}$ _____

_____ 3) $\frac{2}{5}$, $\frac{4}{8}$ _____

Directions: Arrange the set of fractions from **least to greatest**.

_____ 4) $\frac{2}{3}$, $\frac{3}{4}$, $\frac{5}{8}$, $\frac{1}{2}$ _____

_____ 5) $\frac{7}{8}$, $\frac{2}{3}$, $\frac{1}{4}$, $\frac{1}{6}$ _____



Assessment

Directions: Encircle the letter of the correct answer.

1.) Which group of fractions are **dissimilar fractions**?

A. $\frac{1}{3}$, $\frac{4}{3}$, $\frac{3}{3}$, $\frac{2}{3}$
B. $\frac{5}{12}$, $\frac{6}{12}$, $\frac{7}{12}$, $\frac{10}{12}$

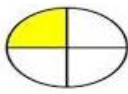
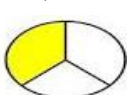
C. $\frac{3}{7}$, $\frac{2}{7}$, $\frac{6}{7}$
D. $\frac{2}{3}$, $\frac{3}{4}$, $\frac{5}{6}$



2.) What kind of fractions are

1/5, 3/7, 7/12

- A. Similar
B. Dissimilar
C. Equivalent
D. Mixed

Compare each fraction using $>$, $<$, $=$ or \neq .

3.) $\frac{1}{4} =$  _____ $\frac{1}{3} =$ 

4.) $\frac{2}{3} =$  _____ $\frac{3}{5} =$ 

Choose and encircle the letter of the correct equation.

5) A. $\frac{2}{5} = \frac{4}{5}$
B. $\frac{1}{6} < \frac{4}{5}$
C. $\frac{3}{5} > \frac{4}{7}$
D. $\frac{1}{2} \neq \frac{3}{6}$

References

Mathematics 3, Teacher's Guide, Pages 228 - 244

Mathematics 3, Textbook Pages 208 - 222

Authors: Ofelia G. Chingcuangco and Henry P. Contemplacio, Eleanor Flores

Development Team

Writer: **Ludevina D. Del Rosario**
Ditay Elementary School
Ditay, Diplahan, Zamboanga Sibugay

Editors/QA: **Crislyn M. Makasiar**
Romar P. Navarro
Jennifer F. Gadian
Lea M. Indayo

Reviewer: **Gina I. Lihao**
EPS-Mathematics

Illustrator:
Layout Artist:

Management Team:

Evelyn F. Importante
OIC- CID Chief EPS

Dr. Aurelio A. Santisas, CESE
OIC- Assistant SDS

Dr. Jenealyn A. Aleman, CESO VI
OIC- Schools Division Superintendent