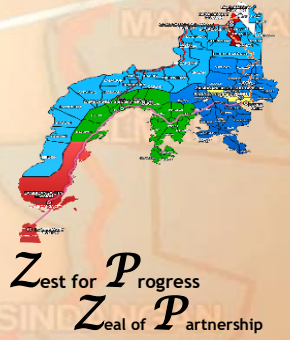




Republic of the Philippines  
**Department of Education**  
 Regional Office IX, Zamboanga Peninsula



# MATHEMATICS

## Quarter 3 - Module 6 Forming Simple Environment's Symmetrical Design



Name of Learner: \_\_\_\_\_

Grade & Section: \_\_\_\_\_

Name of School: \_\_\_\_\_

- JANUARY  
*Matuguhon*
- FEBRUARY  
*Mahiguimaon*
- MARCH  
*Matinabungan*
- APRIL  
*Matinahuron*
- MAY  
*Makapsay og Malimpyo*
- JUNE  
*Maabik og Masunod sa  
Dhasakong Oras*
- JULY  
*Maantigo og Maabilidad*
- AUGUST  
*Maginhuhuhunon  
para sa Uban*
- SEPTEMBER  
*Madaginaton*
- OCTOBER  
*Matinud-anon*
- NOVEMBER  
*Masaligan*
- DECEMBER  
*Maalampon*



## What I Need to Know

In this module, you will be able to:

- Identifies and visualizes symmetry in the environment (**M3GE-IIIg-7.3**)
- Identifies and draws the line of symmetry in a given symmetrical figure (**M3GE-IIIg-7.5**)
- Completes a symmetric figure with respect to a given line of symmetry. (**M3GE-IIIh-7.5**)



## What I Know

Let us see how much you already learn in this lesson.

Encircle the letter of your choice.

1. Which of the figures shows symmetry?

A.



B.



C.



2. Mia and Bia's mother bought 12 pieces of apples.

How many apples does each daughter will receive?

A. 4 apples

B. 5 apples

C. 6 apples

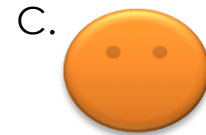
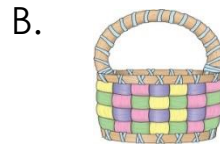
3. How can we tell that a figure is a symmetry?

A. When half of the figure is exactly the same as its half

B. When half of the figure is less than its half

C. When half of the figure is more than its half

4. Which figure does **NOT** have a line of symmetry?

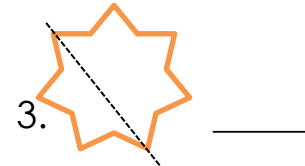
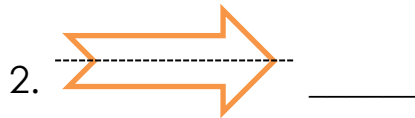
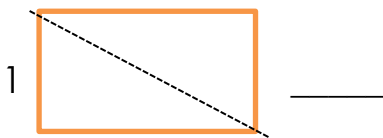


5. Where is the line of symmetry in the picture.



### What's In

**Activity 1:** Give me yes or no. Tell whether the dotted line on each shape represents a line of symmetry.



### What's New

Sing the song about a butterfly (Tune: Sitsiritsit)

**Fly, fly the butterfly  
In the morning it's flying high  
In the meadow, it's flying low  
Fly, fly fly, the butterfly.**

Questions:

1. What is the song all about? \_\_\_\_\_
2. Have you seen a butterfly? \_\_\_\_\_
3. Can you describe it? \_\_\_\_\_
4. If you will fold a picture of a butterfly into two do you think it will have an equally divided side? \_\_\_ Why? \_\_\_

Observe the illustrations. And answer the questions below.

Example 1.

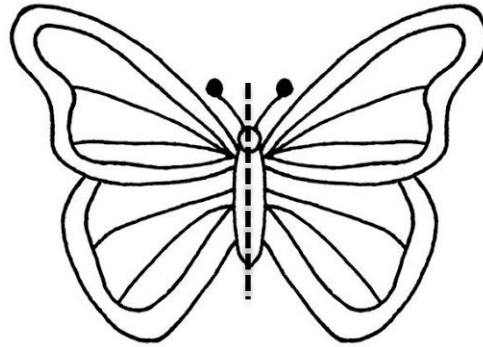
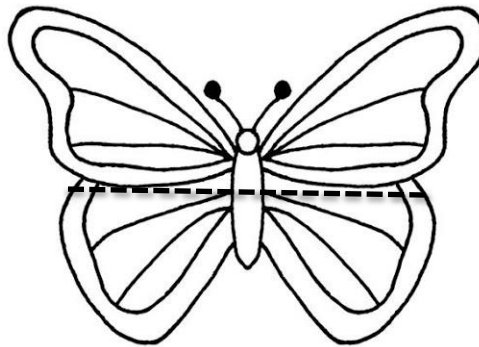


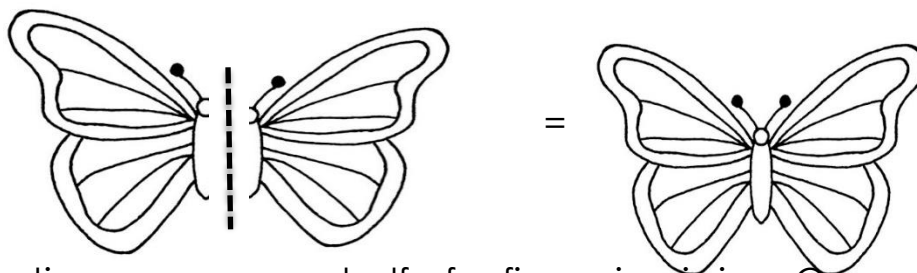
Illustration shows that a butterfly was fold into two and that both side of the butterfly is equally divided into two. This figure is **Symmetry**. The dotted line that divide the butterfly is called a **line of symmetry**. A line that passes thru the center of the figure. Now, can you think of object or figure that has a symmetry?

Example 2.



However, in this illustration if you fold the butterfly horizontally you can see that both sides are not perfectly match. It shows here that there is no line of symmetry in this figure.

Example 3.



In this illustration you can see half of a figure is missing. One way to complete this is to draw the other side of the figure as exactly or a mirror-image of the other side.

Now, let' s try to answer:

1. What do you call a figure that has two sides and mirror-image of one another? \_\_\_\_\_

2. How do you fold a butterfly to have an equally divided side? \_\_\_\_

3. How did you get the line of symmetry in each/figure? \_\_\_\_\_

4. What does line of symmetry mean? \_\_\_\_\_

5. How will you complete a symmetrical figure? \_\_\_\_\_



### What Is It

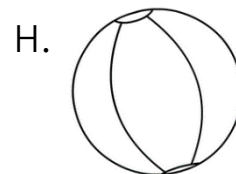
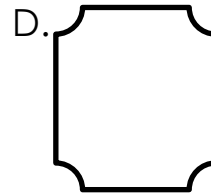
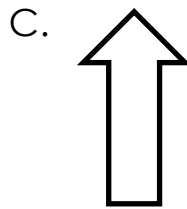
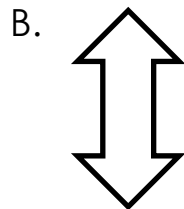
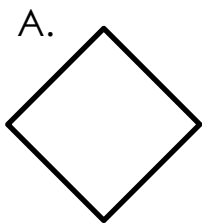
**Symmetry** is when a figure has two sides that are mirror - images of one another. You can draw a line of the object and along either side the image would look exactly the same. This line is called **Line of Symmetry**. Hence, the folded parts match perfectly with one another. The line of symmetry passes thru the center of the image. Furthermore, to complete a symmetrical figure draw the other half exactly the same, a mirror -image of the other half with respect to its line.



### What's More

**Directions:** Draw a line of Symmetry on the shapes below.

Some shapes may have more than one line of symmetry.





## What I Have Learned

**Directions:** Tell whether each of the figure has line of symmetry. Write Yes, then draw the line of symmetry.

1.



\_\_\_\_\_

2.



\_\_\_\_\_

3.



\_\_\_\_\_



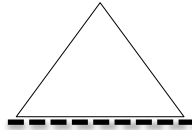
## What I Can Do

**Directions:** Draw the missing half of the figure using the line of symmetry.

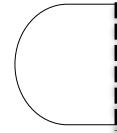
1.



2.



3.



## Assessment

**Directions:** Read the questions carefully. Write the letter of the correct answer on the space provided for.

- \_\_\_ 1. It is a line that passes thru the center of a figure or an objects.
- Line of Symmetry
  - Perpendicular line
  - Symmetrical line

\_\_\_ 2. Which of the figures is **Not Symmetry**?

A



B.



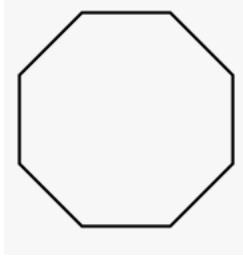
C.



\_\_\_ 3. What is a symmetry?

- Figure that has two sides which both sides are perfectly match with one another.
- Figure that shows one side is greater than the other side
- Figure that shows both sides are not equally or perfectly match with one another.

\_\_\_ 4. How many line of symmetry you can see on this figure?



- A. 2
- B. 3
- C. 4

\_\_\_ 5. Which of the figures shows symmetry?

A



B.



C.



## References

A. Reference Book

Mathematics Teachers' Guide pages 260-270

Mathematics Learner's Materials pages 240-250

B. Internet References/Cliparts

<https://bit.ly/3m3IKrP>

<https://bit.ly/3m8y4b6>

<https://bit.ly/3gDBuBy>

<https://bit.ly/377to15>

<https://bit.ly/2W0iS5z>

<https://bit.ly/377qKZ9>

<https://bit.ly/3qL18ZZ>

<https://bit.ly/37LZSgk>

<https://bit.ly/2JU2lrR>

<https://bit.ly/37QDeDL>

<https://bit.ly/3oELoWA>

<https://bit.ly/2Kfqazu>

<https://bit.ly/3gzCs1M>

<https://bit.ly/2LrH7HK>

<https://bit.ly/3n8n4fb>

<https://bit.ly/378J1VS>

<https://bit.ly/379dhjM>

<https://bit.ly/378sGka>

## Development Team

Writer: **Maricel B. Baud**

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*