



**MATHEMATICS - Grade 2**  
**Quarter 1 - Module 2 Compose and Decompose Composite Figures**  
**Self-Learning Module (SLM)**  
**MATATAG Curriculum**  
**First Edition, 2025**

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# Introductory Message

This Self-Learning Module (SLM) is prepared so that you, our dear learners, can continue your studies and learn while at home. Activities, questions, directions, exercises, and discussions are clearly stated for you to understand each lesson.

Each SLM is composed of different parts. Each part shall guide you step-by-step as you discover and understand the lesson prepared for you.

A Pre-test is provided to measure your prior knowledge on lessons in each SLM. This will tell if you need to proceed on completing this module, or if you need to ask your facilitator or your teacher's assistance for better understanding of the lesson. At the end of each module, you need to answer the post-test to self-check your learning. Answer keys are provided for each activity and test. We trust that you will be honest in using these.

In addition to the material in the main text, Notes to the Teachers are also provided to the facilitators and parents for strategies and reminders on how they can best help you on your home-based learning.

Please use this module with care. Do not put unnecessary marks on any part of this SLM. Use a separate sheet of paper in answering the exercises and tests. Read carefully the instructions before performing each task.

If you have any questions in using this SLM or any difficulty in doing the tasks in this module, do not hesitate to consult your teachers or facilitator.

Thank you.

# For the learner

Welcome to the Mathematics - Grade 2 Self-Learning Module (SLM) on Composing and Decomposing Composite Figures!

In this learning resource, you will have the opportunity to enjoy and successfully achieve relevant competencies at your own pace.

This module offers fun and meaningful opportunities for both guided and independent learning. You will engage with the material and become an active participant in your learning journey.

This module has the following parts and corresponding icons:



## What I Need to Know

This gives you an idea of the skills or competencies you are expected to learn in the module.



## What I Know

This part includes an activity that aims to check what you already know about the lesson to take. If you get all the answers correctly, you may decide to skip this part.



## What's In

This is a brief drill or review to help you link the current lesson with the previous one.



## What's New

In this portion, the new lesson is introduced to you in various ways such as through a story, a song, a poem, a problem opener, an activity or a situation.



## What is It

This section provides a brief discussion of the lesson. This aims to help you discover and understand new concepts and skills.



## What's More

This comprises activities for independent practice to concretize your understanding and skills about the topic. You may check the answers to the exercises using the Answer Key at the end of the module.



### **What I Have Learned**

This includes questions or blank sentence/ paragraph to be filled in to process what you learned from the lesson.



### **What I Can Do**

This section provides an activity which will help you transfer your new knowledge or skill into real life situations or events.



### **Assessment**

This is a task which aims to evaluate your level of mastery in achieving the learning competency.



### **Additional Activities**

In this portion, another activity is given to you to enrich your knowledge or skill of the lesson learned. It also ensures retention of learned concepts.

### **Answer Key**

This contains answers to all activities in the module.

At the end of this module, you will also find:

### **References**

This is a list of all sources used in developing this module.

The following are some reminders in using this module:

1. Use the module with care. Avoid unnecessary mark/s on any part of the module. Use a separate sheet of paper in answering the exercises.
2. Answer *What I Know* before moving on to the other activities included in the module.
3. Carefully read the instructions before doing each task.
4. Observe honesty and integrity in doing the tasks and in checking your answers.
5. Finish the task at hand before proceeding to the next.
6. Return this module to your teacher/facilitator once you are through with it.

If you encounter any difficulty in doing the tasks in this module, consult your teacher or facilitator. Always bear in mind that you are not alone. We hope that through this material, you will experience meaningful learning and gain a deep understanding of the relevant competencies.

## For the facilitator

Welcome to the Mathematics 2 Self-Learning Module on Composing and Decomposing Composite Figures!

The Curriculum Implementation Division (CID) through the Learning Resource Management Section (LRMS) launched this module in cooperation with the Division's Teacher Developers, Learning Resource Evaluators (LREs), Information and Technology Officer, and subject matter experts in Mathematics and English. This has been especially developed, quality-assured, and validated to enable you to help the learners overcome their educational obstacles—personal, social, and economic—while meeting the standards outlined in the MATATAG Curriculum.

This learning resource hopes to engage the learners in guided and independent learning activities. It further aims to help them acquire the needed 21<sup>st</sup> century skills while taking into consideration their needs and circumstances.

As a facilitator, you are expected to orient the learners on how to use this module. You also need to keep track of their progress while allowing them to manage their learning. In addition, you are enjoined to encourage and assist the learners as they do the tasks contained in the module.

# MATHEMATICS

## Quarter 1 - Module 2

### Compose and Decompose Composite Figures



## What I Need to Know

This module was designed and written to help you master the Composite Figures. The scope of this module can be used in many different learning situations. The language used was adjusted to the diverse vocabulary level of learners.

### Learning Competency

- Compose and decompose composite figures made of squares rectangles, triangles, circles, half circles, and quarter circles using cutouts and square grids

After using this module, you are expected to:

- Compose and decompose figures using cutouts and square grids of two or more familiar shapes (such as squares, rectangles, triangles, circles, half circles, and quarter-circles)



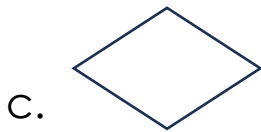
## What I Know

**Directions:** Write the letter of the correct answer.

1. Putting together two half circles makes one \_\_\_\_\_.

- a. triangle
- b. circle
- c. quarter circle
- d. square

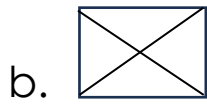
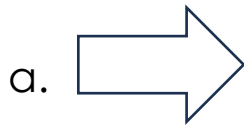
2. If you combine triangles and squares. What figure do you compose?



3. How many quarter circles are needed to form a circle?

- a. 3
- b. 2
- c. 4
- d. 5

4. Which one is a new figure to decompose a square with four triangles?



5. To decompose a figure means \_\_\_\_\_ the shape to form a new figure.

- a. putting
- b. breaking
- c. combining
- d. joining

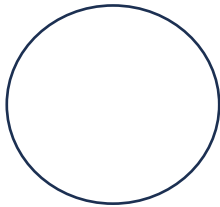
# Lesson 1 - Compose Composite Figures Made of Squares, Rectangles, Triangles, Circles, Half Circles, and Quarter Circles



## What's In

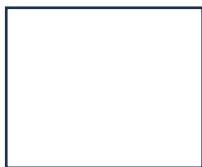
**Directions:** Identify the different shapes. Write the letter of the correct answer.

1.



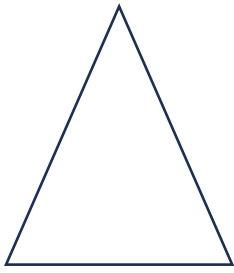
- a. circle
- b. square
- c. triangle
- d. oblong

2.



- a. rectangle
- b. square
- c. triangle
- d. circle

3.



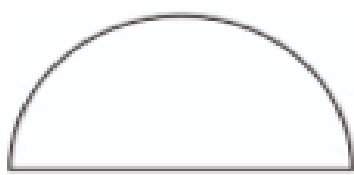
- a. rectangle
- b. square
- c. triangle
- d. rectangle

4.



- a. circle
- b. rectangle
- c. quarter circle
- d. square

5.



- a. circle
- b. half circle
- c. quarter circle
- d. oblong



## What's New

Hello Kids! Can you still remember the different shapes? Today, you are going to learn how to compose a figure using different shapes.

What does composing a figure mean?

**Composing** means combining or putting shapes together to form a new one/figure.



Example:      2 separate squares      2 squares put together

What figure is composed by putting two squares together?



## What is It

Compose a figure using the cut outs. It is composed of a square  and a triangle .

Ask: What figure did you compose?

### Activity 1.1

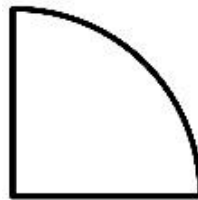
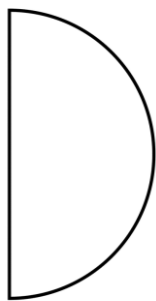
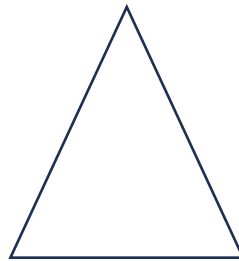
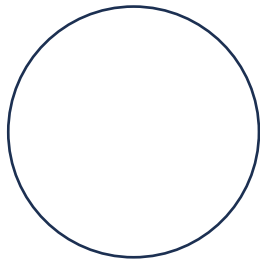
1. Put together two-quarter circles. What shape did you make?
2. Put together two half circles. What figure do you form?



## What's More

### Activity 1.2

Combine or put together the cut outs of a square, rectangle, circle, triangle, half circle, and quarter circle to form a new figure.



What figure did you compose? Draw the figure that you have composed. Explain your answer.



## What I have learned

What did you learn in our lesson?

How do you compose the figure?

In composing figures, means combining or \_\_\_\_\_ shapes to \_\_\_\_\_ a \_\_\_\_\_ one/figure.



## What I can do

Challenge time!

### Directions:

1. Use graphing paper and a scissor. Cut out different shapes like squares, triangles, rectangles, half circles, and quarter circles.
2. Compose different figures using your cut outs. Think of possible ways to compose a figure.
3. Paste them on bond paper.

Congratulations for a job well done kids!



## Assessment

**Directions:** Compose a new figure using the different shapes. Illustrate/Draw your answer on the blank.

1. Compose 4 squares to form a rectangle.

2. Combine the two triangles to form a square.

3. Compose a new figure using 6 triangles.

4. Make a circle using 4-quarter circles.

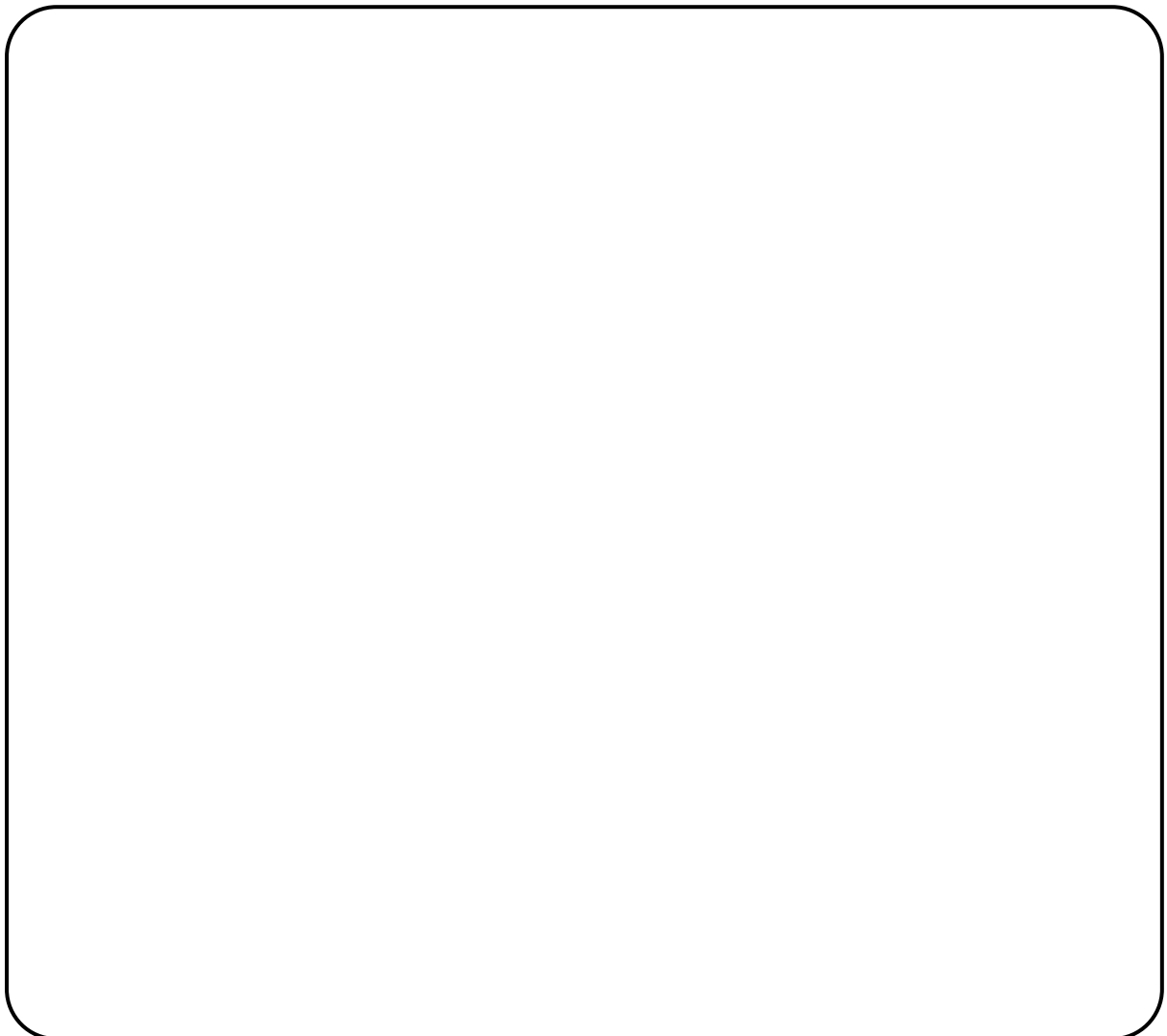
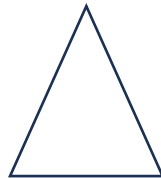
5. Make a diamond using 2 triangles.



## Additional Activities

Have fun learning at home!

Make your design. Use the shapes and put them together to form a new shape.



# Lesson 2 - Decompose composite figures made of squares, rectangles, triangles, circles, half circles and quarter circles



## What's In

**Directions:** Write the letter of the correct answer.

1. What new figure you create if you put two half circles together?
  - a. square
  - b. circle
  - c. quarter circle
  - d. oblong
  
2. Can you combine two triangles to form a new figure?
  - a. Yes
  - b. No
  - c. Maybe
  - d. I don't know
  
3. How many quarter circles are needed to form a circle?
  - a. 2
  - b. 3
  - c. 4
  - d. 5

4. If you combine two triangles, how many figures can you create/compose?
- a. 1
  - b. 2
  - c. 3
  - d. 4
5. Putting two squares together. What figure was composed?
- a. rectangle
  - b. square
  - c. triangle
  - d. circle



## What's New

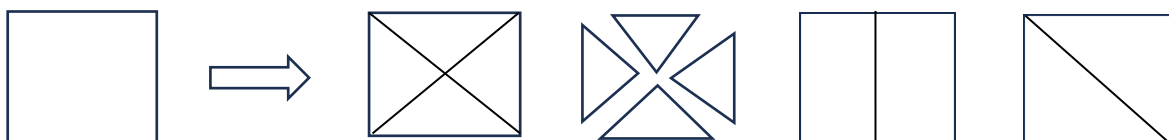
Last time, you learned how to compose a new figure using different shapes.

Today, you will learn how to decompose given figure into different shapes like square, rectangle, triangle, circle, half circle, and quarter circle.

What does decomposing a figure mean?

**Decomposing** a figure means separating/breaking a figure into two or more parts.

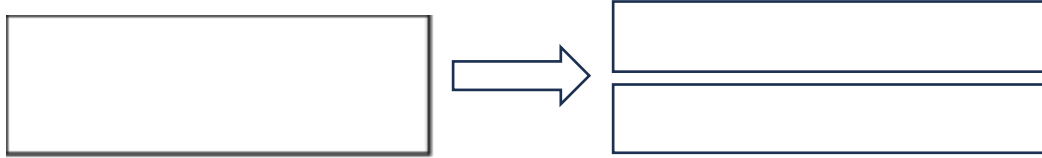
Example: 1 square can be decomposed or separated into





## What is It

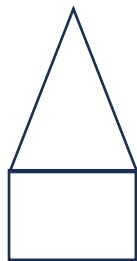
Decompose a rectangular cut out into two smaller rectangles.



A rectangle was decomposed into two smaller rectangles.

What are some ways to decompose a rectangle?

Decompose the figure into familiar shapes.



Ask: How did you decompose the figure?

Draw or cut and paste your decomposed figure on a bond paper. Explain your work.

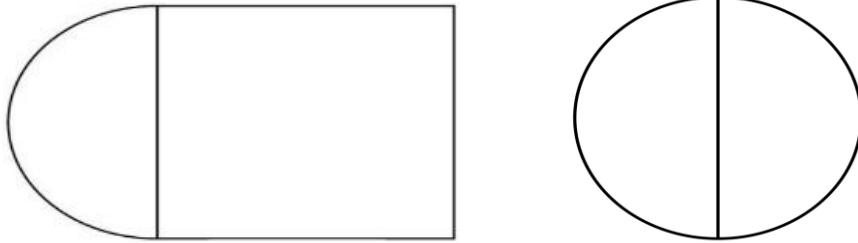
Well done! Let us learn more by answering the next activity.



## What's More

### Activity 1.1

Decompose the figures in different ways.



Draw your work and identify the shapes of the figure being decomposed.

### Activity 1.2

Decompose the given figure into familiar shapes like triangle, circle, half circle, quarter circle, rectangle, and square. Identify the shapes created.



Congratulations! You have finished the activity!



## What I have learned

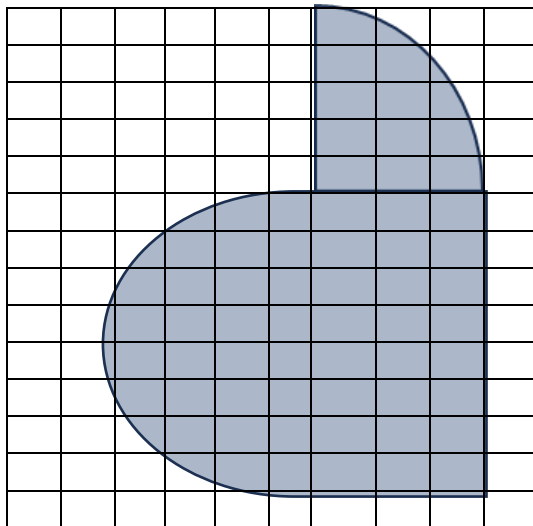
How do you decompose the figure?

To decompose a figure is to \_\_\_\_\_ the \_\_\_\_\_ apart into \_\_\_\_\_ or more parts.



## What I can do

**Directions:** Decompose the following figure on a grid.



Present your work using separate graphing paper.

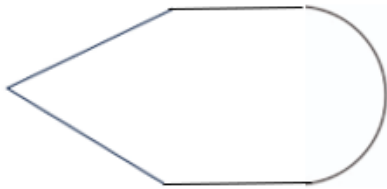
Great job! Did you enjoy our activity?



## Assessment

**Directions:** Decompose the figure into **more than two** shapes.

Show how you decomposed the figure.



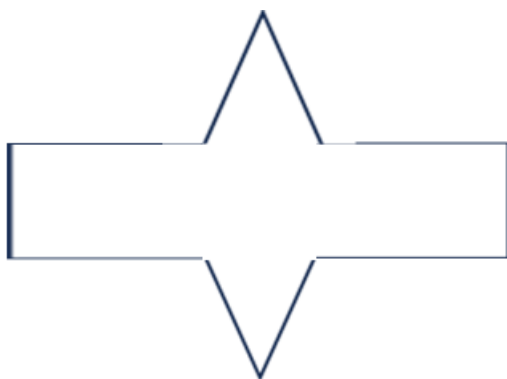
Name each shape into which you decomposed the figure.

Answer: \_\_\_\_\_



## Additional Activities

**Directions:** Decompose the figure. Draw the different shapes you decomposed.



Answer: \_\_\_\_\_

# Answer Key

## Lesson 1

<b>What I Know</b> 1. b 2. a 3. c 4. b 5. b	<b>What's In</b> 1. a 2. b 3. c 4. b 5. b	<b>What's New</b> 	<b>What is it</b> Possible answer 	<b>Activity 1.1</b> half circle circle
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<b>What's More</b> Activity 1.2 There are many possible answers/figure to form.	<b>What I have Learned</b> putting shapes form new	<b>What I Can Do</b> There are many possible figures to form. It may vary from the learners output	<b>Assessment</b> 1. 2. 3. 4. 5.
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## Lesson 2

<b>What's in</b> 1. b 2. a 3. c 4. a 5. a	<b>What Is It</b> 	<b>What's More</b> Activity 1.1  Activity 1.2 Answers may vary from pupils output	<b>What I Can Do</b> Possible Answers 	<b>Assessment</b> triangle rectangle half circle
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## References

Education, D. O. (2024). *Mathematics 2: Quarter 1 Lesson Exemplar: Lesson Exemplar*. Philippines: Department of Education

## DISCLAIMER

This Self-learning Module (SLM) in **MATHEMATICS 2 - Quarter 1 Module 2** titled **"Compose and Decompose Composite Figures"** was developed by SDO Tacurong with the primary objective of preparing for and addressing the demands of the MATATAG Curriculum. Contents of this module were based on DepEd's Learning Competencies anchored on the MATATAG Curriculum. This is a supplementary material to be used by all learners of Tacurong City in all public schools beginning SY 2024-2025. The process of LR development was observed in the production of this module. This is version **1.0**. We highly encourage feedback, comments, and recommendations.

For inquiries or feedback, please write or call:

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