2

MATHEMATICS

Quarter 4 - Module 7
Identify and Measure the Perimeter of Plane Figures Using Appropriate Tools

SELF-LEARNING MODULE

DEPARTMENT OF EDUCATION - SOCCSKSARGEN

MATHEMATICS - Grade 2
Quarter 4 - Module 7 Identify and Measure the Perimeter of Plane Figures Using Appropriate Tools
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

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 Grade 2) Self-Learning Module on Identify and Measure the Perimeter of Plane Figures Using Appropriate Tools.

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 21st 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.

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MATHEMATICS

Identify and Measure the Perimeter of Plane Figures Using Appropriate Tools

DepED MATATAG
Bansang Makabata Batang Makabansa

What I Need to Know

This module was designed and written to help you master the Perimeter of the plane figures using appropriate tools. The scope of this module permits it to be used in many different learning situations. The language used recognizes the diverse vocabulary level of learners. The lessons are arranged to follow the standard sequence of the course. The contents of this module correspond to the textbook you are using.

Lesson 11- Identify and measure the perimeter of plane figure using appropriate tools.

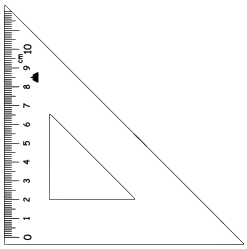
Content Standards: the perimeter of triangles, squares, and rectangles.

What I Know

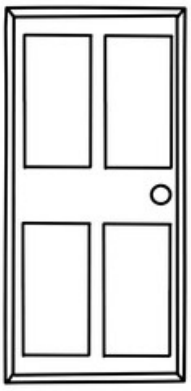
Hi! Today, we will do something fun. Let us see what you know about shapes. Are you ready? Let us start!

Directions: A. Identify and write the shape of the following objects. Choose your answer inside the box.

circle	square	triangle	rectangle

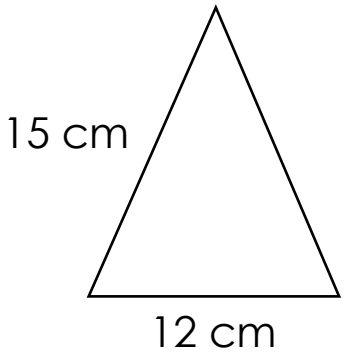
_____1. 

_____ 2. 

_____ 3. 

B. Use your ruler. Measure the missing side of the following plane figures and find the perimeter.

4.



_____

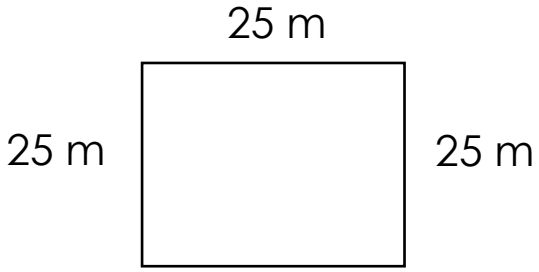
a. P= 42 cm

b. P= 45 cm

c. P= 50 cm

d. P= 55 cm

5.



_____

a. P= 100 m
b. P= 150 m
c. P= 200 m
d. P= 250 m

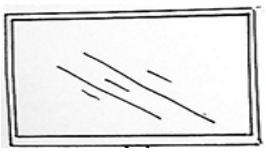
Lesson 1 - Identify and Measure the Perimeter of Plane Figures Using Appropriate Tools

What's In

Awesome job! Now, let's go over some things you have learned before.

Directions: Write **SL** if the object shows **Straight Line** and **CL** if it shows **Curved Line**.

_____ 1. 

_____ 2. 

_____ 3.

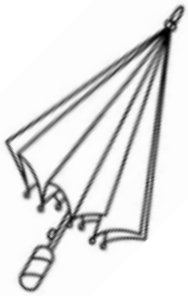
_____ 4. 

_____ 5. 

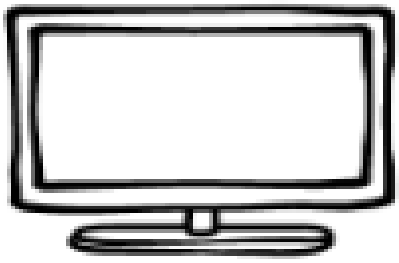
What's New

Great! This time, we are going to learn something new and exciting.

Directions: Look at the objects below. Choose your answer inside the box to complete the sentence.



umbrella



television

dice

square	triangle	rectangle	circle

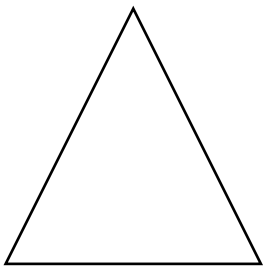
1. An umbrella has the shape of a _____.

2. A television has the shape of a _____.

3. A dice has the shape of a _____.

What is It

Fantastic! Let us go further and discover more about our lesson. Read and study the different shapes below.

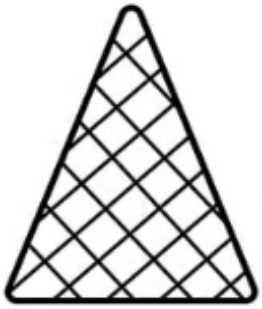


This is triangle.

It is flat; has three sides and three corners.

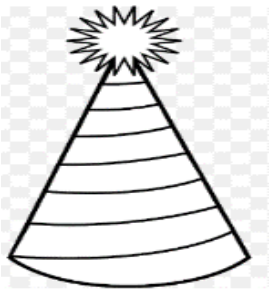
It is a plane figure.

Here are some objects with triangle shapes:



cone

Christmas Tree



Party hat

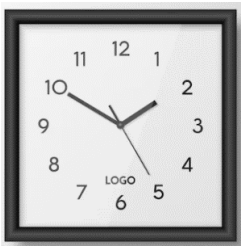
A **triangle** is a plane figure with three sides and three corners.

This is a square.

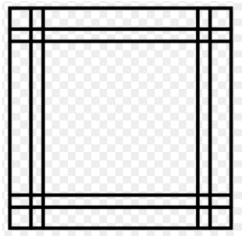
It is flat; it has four equal sides and four corners.

It is a plane figure.

Here are some objects with square shapes:



clock



handkerchief

window

A **square** is a plane figure with four equal sides and four corners.

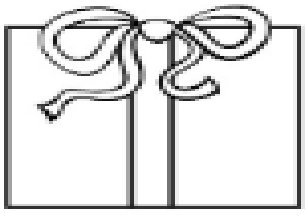
This is a rectangle.

It is flat; it has two long sides and two short sides.

It has four corners.

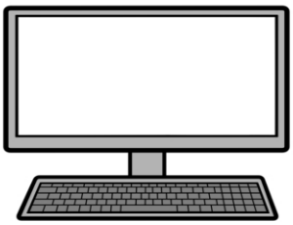
It is a plane figure.

Here are some objects with rectangular shapes:



gift

envelope



desktop computer

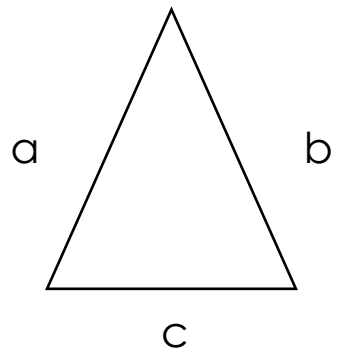
A **rectangle** is a plane figure with two long sides, two short sides, and four corners.

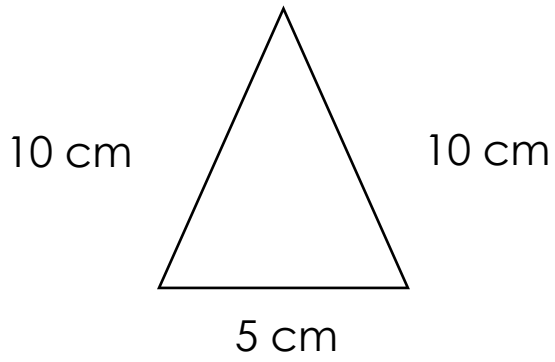
Do you want to know how to get the perimeter of the plane figures?

Perimeter (P) is the measurement of the distance around a closed figure.

- In getting the perimeter of a **triangle,** add the lengths of all three sides together. If the sides are labeled as a, b, and c, the formula is :

Perimeter (P) = a + b + c





P = a + b + c

P = 10cm + 10cm + 5cm = 25cm

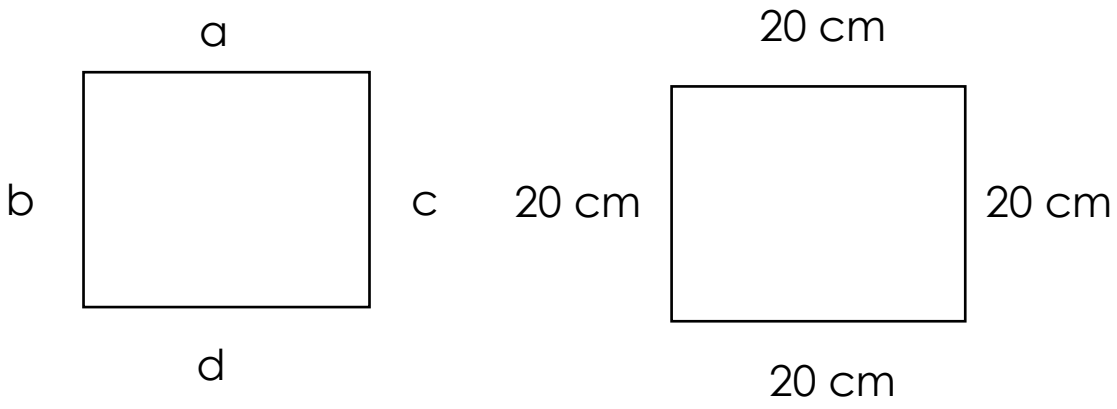
So, the perimeter of a triangle is 25cm.

- In getting the perimeter of a **square**, add the lengths of the four sides or multiply the measure one side by 4. Use this formula:

Perimeter (P)= 4 x side length

or

Perimeter (P) = a + b + c + d



P= 4 x side length

P= 4 x 20 = 80 cm

or

P = a + b + c + d

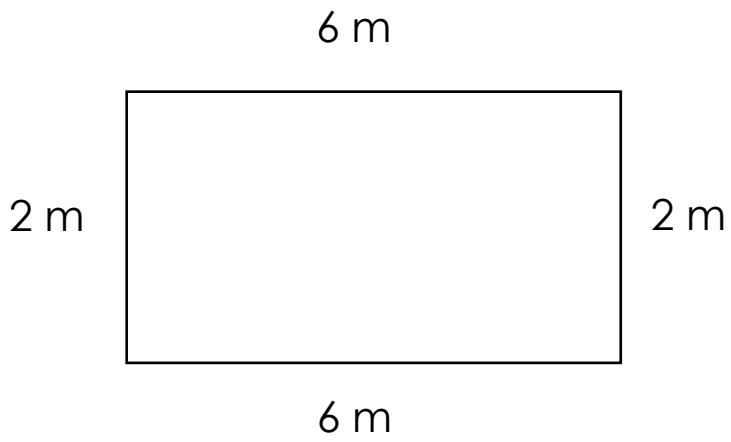
P= 20 cm + 20 cm + 20 cm + 20 cm= 80 cm

So, the perimeter of a square is 80 cm.

- In getting the perimeter of a **rectangle**, add the measure of each side. Another way is to multiply the length and the width by 2 since a rectangle has 2 equal sides for length and 2 equal sides for width, Use this formula:

  P = (W + W) + (L + L) or P = (2 x W) + (2 x L)

  Where: **L** means length (longer side of a shape)
  W means width (shorter side of a shape



P = (W + W) + (L + L)

P = (2 m + 2 m) + (6 m + 6 m)

P = 4 m + 12 m

P = 16 m

or

P = (2 x W) + (2 x L)

P = (2 x 2 m) + (2 x 6 m)

P = 4 m + 12 m

P = 16 m

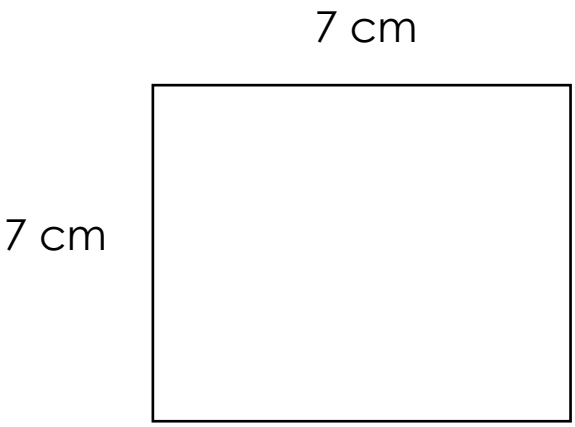
So, the perimeter of the rectangle is 16 m.

What's More

Wow, you are doing an amazing job! Let us examine more of our lesson together.

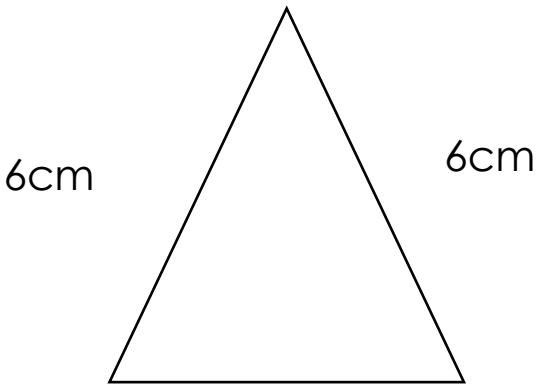
Directions: Find the perimeter of the following plane figures.

1.



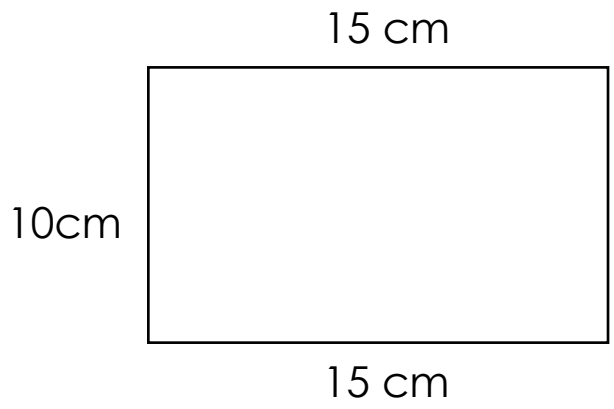
P=_____

2.



P=_____

3.



P=_____

What I have learned

Nice job! This time, let us apply what we had learned by answering the activity below.

Directions: Choose the correct answers inside the box to complete the sentence.

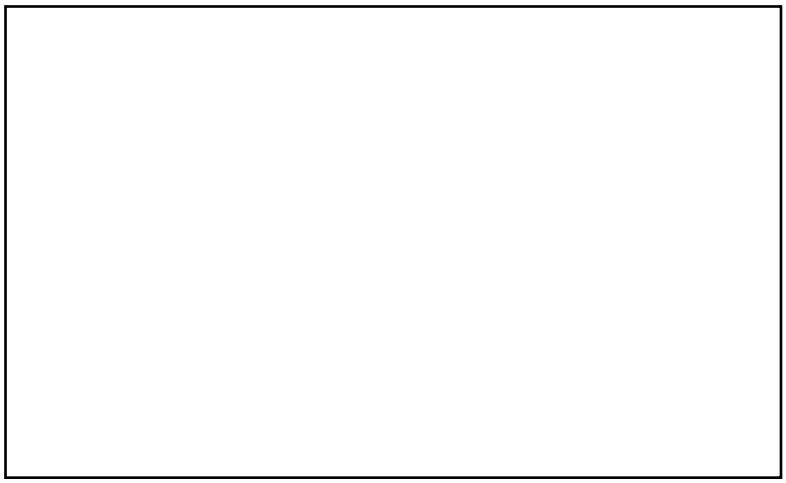
rectangle	square	triangle	circle

1. A _____ is a plane figure with four equal sides and four corners.
2. A _____ is a plane figure with three sides and three corners.
3. A _____ is a plane figure with two long sides, two short sides, and four corners.

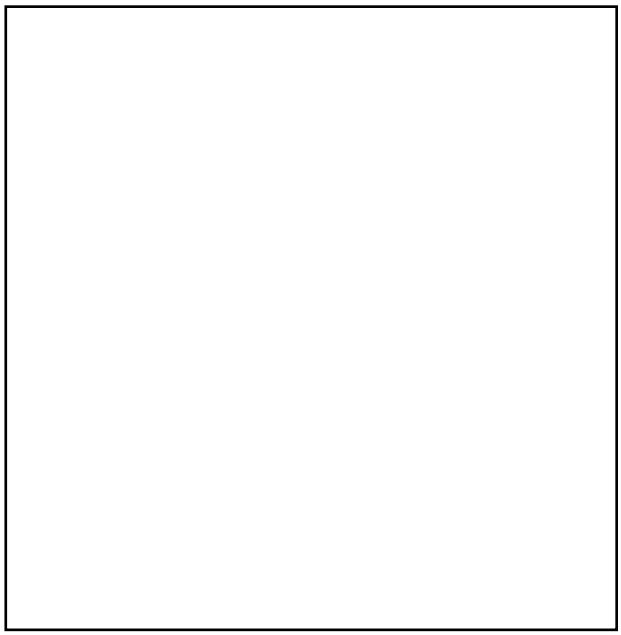
What I can do

Well done! Answer this activity to improve more your knowledge about our lesson.

Directions: Measure the plane figure using tape measure and find the perimeter. Write the letter of the correct answer.

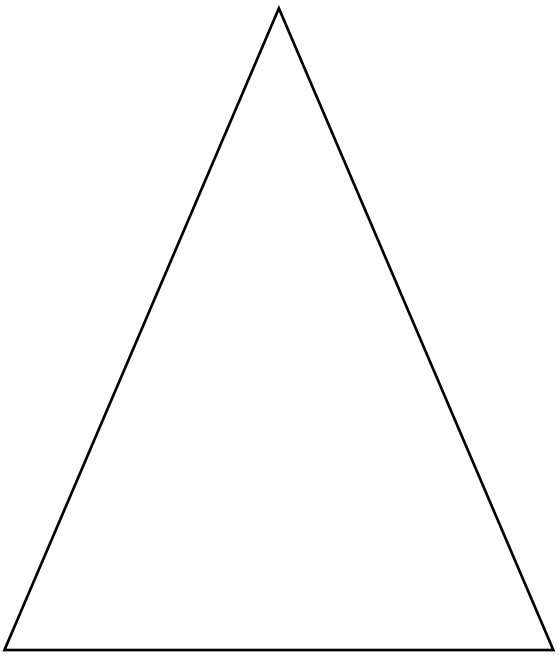
1. 

a. P= 22 cm
b. P= 32 cm
c. P= 42 cm
d. P= 52 cm

2. 

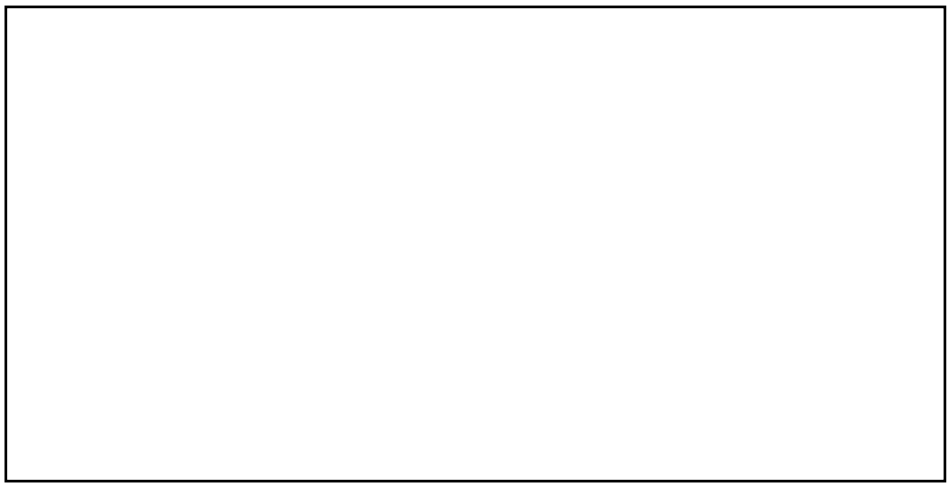
a. P= 52 cm
b. P= 42 cm
c. P= 32 cm
d. P= 22 cm

3.

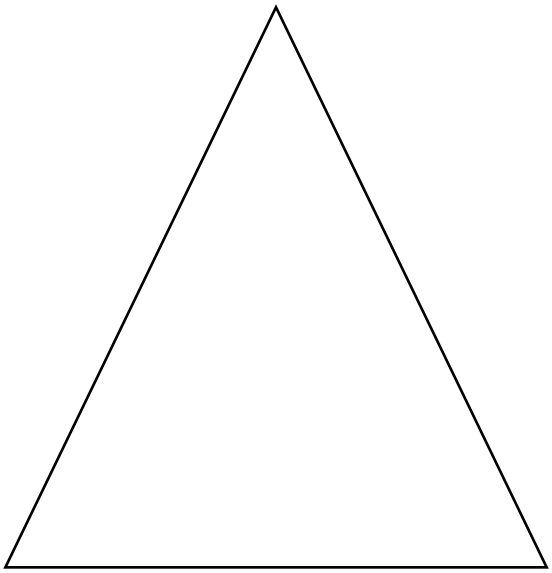


a. P= 8 cm
b. P= 16 cm
c. P= 25 cm
d. P= 26 cm

4.



a. P= 38 cm
b. P= 37 cm
c. P= 36 cm
d. P= 35 cm

5. 

a. P = 8 cm
b. P = 13 cm
c. P = 20 cm
d. P = 23 cm

Assessment

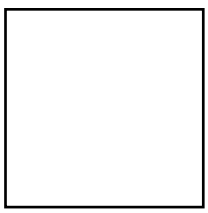
You're doing great! Let's check if you understand our lesson.

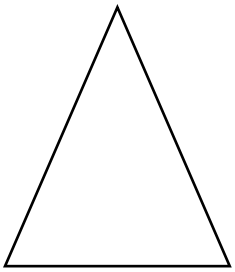
Directions:

A. Identify and write the name of the following plane figures. Choose your answer inside the box.

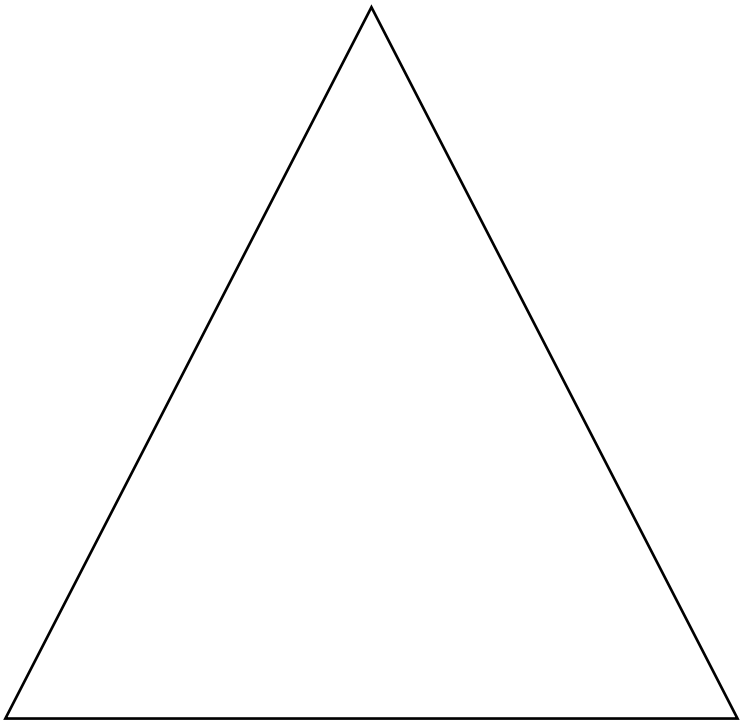
triangle	square	rectangle	circle

_____ 1. 

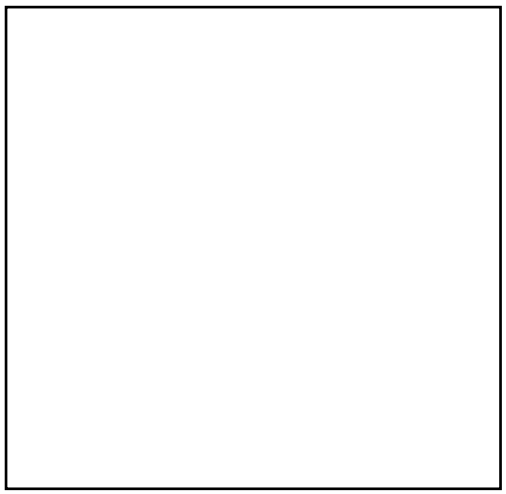
_____ 2. 

_____ 3. 

B. Using your ruler, measure and find the perimeter of the following plane figures.

4. 

a. P= 20 cm
b. P= 24 cm
c. P= 29 cm
d. P= 30 cm

5. 

a. P= 6 cm
b. P = 12 cm
c. P= 18 cm
d. P= 24 cm

Additional Activities

Great job! You know now on how to measure and find the perimeter of different shapes. For your final task, answer the activity below.

Directions: Using your ruler, tape measure or meter stick, measure your dining table at home. Draw it inside the box and labeled each measurement and write the perimeter.

P = _____

Answers Key

What I Know

1. triangle
2. square
3. rectangle
4. 15 cm - a
5. 25 cm - a

What's In

1. CL
2. SL
3. SL
4. CL
5. CL

What's New

1. triangle
2. rectangle
3. square

What's More

1. P = 21cm
2. P = 15 cm
3. P = 50 cm

What I have Learned

1. square
2. rectangle
3. square

What I can do

1. b
2. c
3. c
4. c
5. d

Assessment

1. rectangle
2. square
3. triangle
4. c
5. b

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DISCLAIMER

This Self-learning Module (SLM) in **MATHEMATICS 2 Quarter 4 Module 7** titled **"Identify and Measure the Perimeter of Plane Figures Using Appropriate Tools"** 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:

Schools Division Office of Tacurong City
Learning Resource Management Section (LRMS)

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