

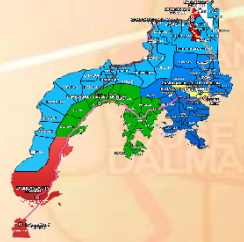


Republic of the Philippines
Department of Education
 Regional Office IX, Zamboanga Peninsula



- 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**
Madaginaton
- OCTOBER**
Matinud-anon
- NOVEMBER**
Masaligan
- DECEMBER**
Maalampon

5



Zest for Progress
 Zeal of Partnership

Mathematics

Quarter 3 - Module 5
 Solid Figures:3D



Name of Learner: _____

Grade & Section: _____

Name of School: _____



What I Need to Know:

This module contains one lesson:

Lesson 5- Visualizing and Describing Solid Figures

After going through this module you are expected to:

1. Visualize and describes solid figures.
2. Make models of different solid figures: cube, prism, pyramid, cylinder, cone, and sphere using plane figures.



What I know:

Directions: Read each item carefully. Encircle the letter of your correct answer.

1. What do you call an object with three dimensional figure?
A. Vertex B. Edges C. Solid Figures D. Polygons
2. Which of the following is a cylinder?
A. Has six equal square shaped sides.
B. Has only one base, the other faces are triangles which meet at a common vertex.
C. Has parallel circular base connected by a curved surface.
D. Has a set of points that are the same distance to a given point.

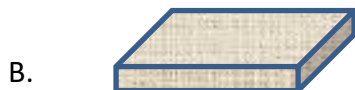
3. What is characteristics of the solid figure at the right.

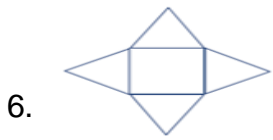
- A. Has six equal square shaped sides.
- B. Has only one base, the other faces are triangles which meet at a common vertex.
- C. Has parallel circular base connected by a curved surface.
- D. a set of points that are the same distance to a given point



4. A globe is an example of what solid figure?
A. cylinder B. cone C. sphere D. pyramid

5. A boy scout wanted to show to his fellow scouters the figure of the earth, which solid figure will he use?





6. This is the net for a _____.

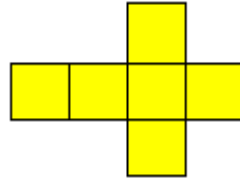
- A. Cone B. pyramid C. cube D. Sphere

7. We can identify a solid figure through net. The word **NET** in the sentence refers to:

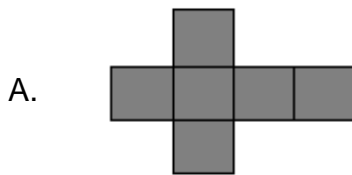
- A. Take home pay
 B. An object use to catch a fish
 C. All the surface of a solid figure
 D. An online movie application

8. What solid figure can be formed this given net?

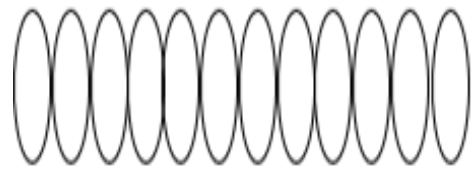
- A. Cone C. cube
 B. B. pyramid D. Sphere



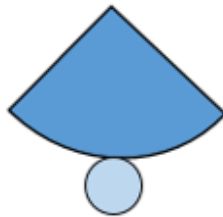
9. A solid with a circular base connected by a curved surface to a single vertex



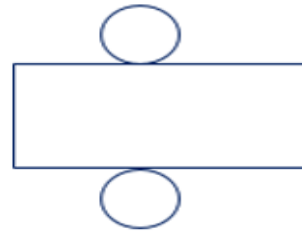
C.



B.



D.



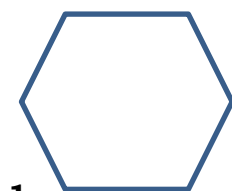
10. Why is it important to study solid figures?

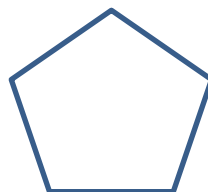
- A. so that we can get good grades.
 B. because it's part of our daily life and we use them every day.
 C. because we see them in the module
 D. so the teachers will have something to check

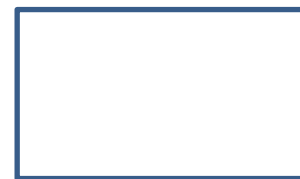


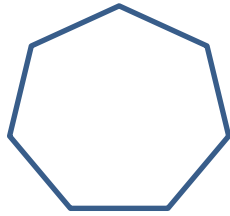
What's In Activity 1: Remember Me!

Directions: Identify the following polygons

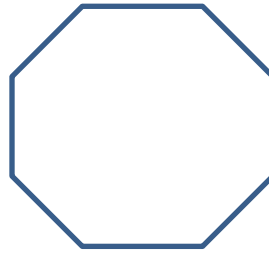








4.



5.



What's New

Activity 2: Match Me!

Directions: Match the following objects with the solid figures

___ 1.



___ 2.



___ 3.



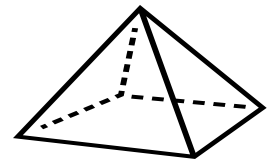
___ 4.



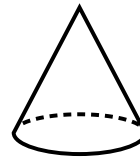
___ 5.



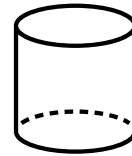
A.



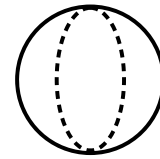
B.



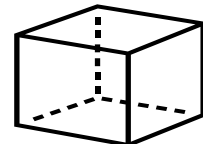
C.



D.



E.





What is it

DIFFERENT SOLID FIGURES

Definition: Solid Figures are three-dimensional figures.

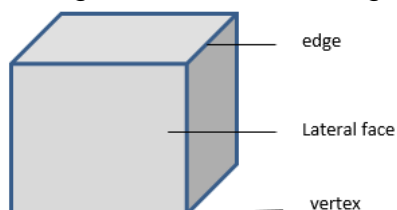
Facts/Characteristics:

- Solid Figures has length, width and height.
- They may have faces, edges and vertices.
- A face is the flat surface of a solid figure.
- An edge is formed when two faces meet.
It is a straight line segment
- A vertex (plural vertices) is a point where edges meet .
- Solid figures are either polyhedron or non-polyhedron .
- A solid is a polyhedron_ if all its faces are polygons, otherwise it is a non-polyhedron.

Different Solid Figures

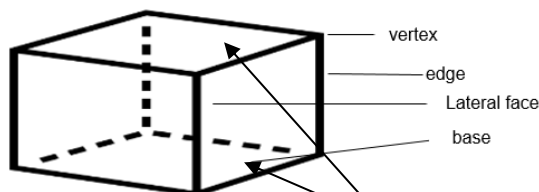
a. Polyhedron

1. **Cube** - A cube has six equal, square - shaped sides. Cubes also have eight vertices (corners) and twelve edges, all the same length. The angles in a cube are all right angles.

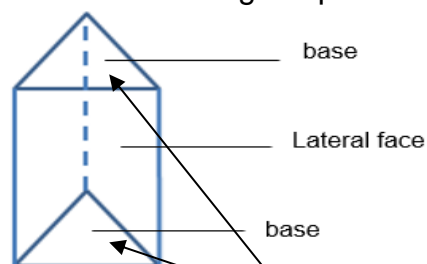


2. **Prism** - A prism is made up of two parallel and congruent bases which can be any polygon. A prism is named the shape of its base. If the base is a triangle, it is called a triangular prism. If it is a pentagon, it is called a pentagonal prism.

Example:

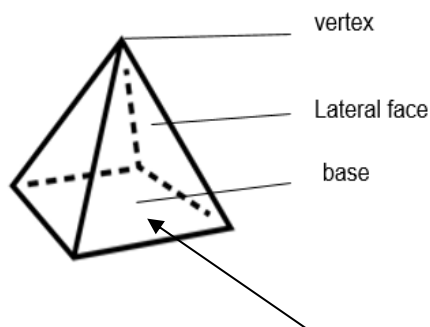


Rectangular prism has **two rectangular bases**.



Triangular prism has **two triangular bases**.

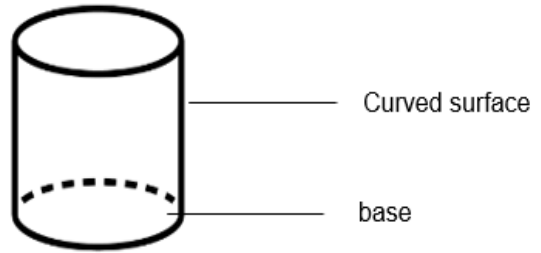
3. Pyramid – A pyramid has only one base, which can also be any polygon. The other faces are triangles which meet at a common vertex. A pyramid is also named after the shape of its base. The base is square we call it square pyramid. If the base is triangle, the call it triangular pyramid.



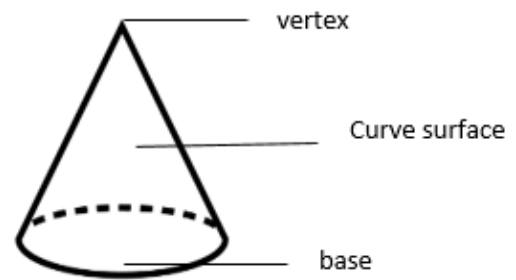
b. Non-polyhedron

1. **Cylinder** is a solid with congruent Parallel Circular bases connected by a curved surface.

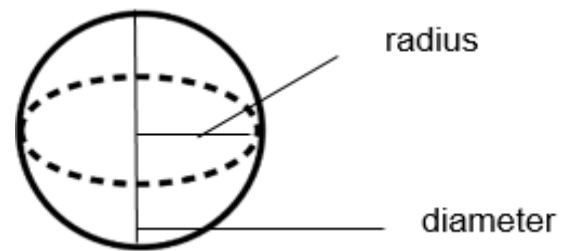
Square pyramid has a **square base**.



2. **Cone** is a solid with a circular base connected by a curved surface to a single vertex.



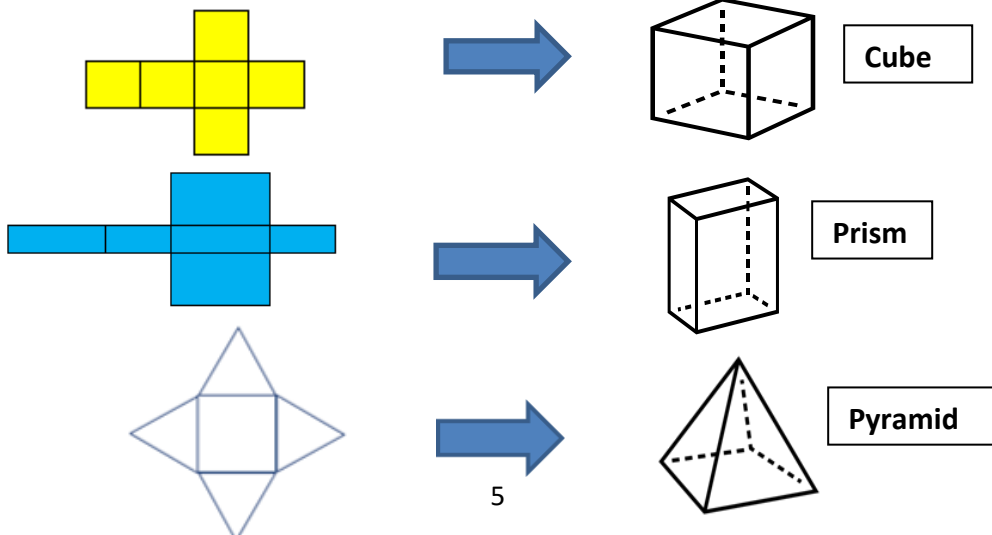
3. **Sphere** is a set of point's space that are the same distance from a given point. A sphere has no faces, edges, or vertices.

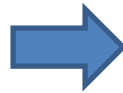
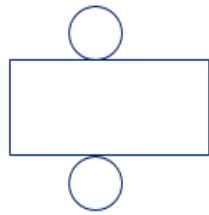


MAKING MODELS OF THE DIFFERENT SOLID FIGURES

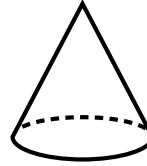
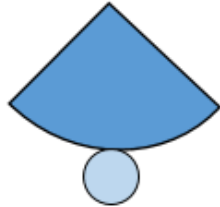
- To make a **solid figure**, we have to make a **net**.
- A **net** is all the surfaces of a solid figure laid out flat.

These are the following nets of the solid figures

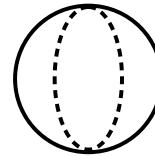
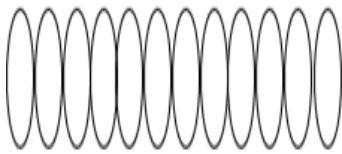




Cylinder



Cone



Sphere

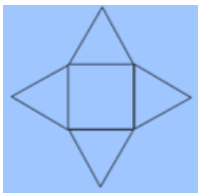


What's more

Activity 3:

Directions: Identify the solid figure of the given net. Write it on the space provided for.

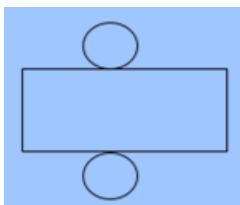
1.



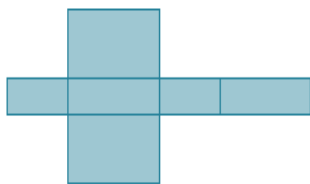
2.

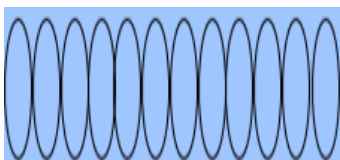


3.



4.





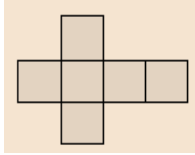

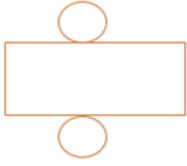

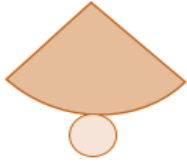

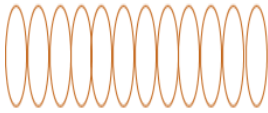
5.



What I have learned

Activity 4:

Directions: Complete the table below.

Name	Definition	Net	Solid figure
Cube	has six equal, square - shaped sides.		1.
Pyramid	has only one base, which can also be any polygon.	2.	
Cylinder	3.		
4.	a solid with a circular base connected by a curved surface to a single vertex		
Sphere	5.		6.



What I Can Do

Activity 5:

Directions: Identify the following solid figures

1.



2.



3.



4.



5.





Assessment:

Directions: Encircle the letter of the correct answer.

1. Figures that has length, width and height is called _____.
- A. Vertex
 - B. Solid Figures
 - C. Edges
 - D. Polygons

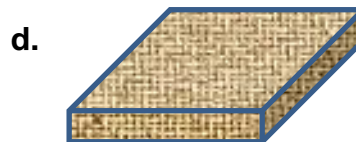
2. Which of the following is a cube?
- A. Has six equal square shaped sides.
 - B. Has only one base, the other faces are triangles which meet at a common vertex.
 - C. Has parallel circular base connected by a curved surface.
 - D. Has a set of points that are the same distance to a given point.

3. Describe the given solid figure at the right.
- A. Has six equal square shaped sides.
 - B. Has only one base, the other faces are triangles which meet at a common vertex.
 - C. Has parallel circular base connected by a curved surface.
 - D. Has a set of points that are the same distance to a given point.

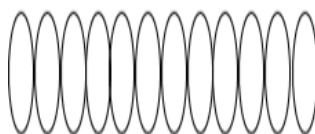


4. A party hat is an example of what solid figure?
- A. Cylinder
 - B. Cone
 - C. Sphere
 - D. Pyramid

5. A boy scout is sleepy after a long walk, which solid figure would he want to lie down to?



6. This is the net for a _____.



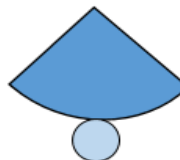
- A. Cone
- B. Pyramid
- C. Cube
- D. Sphere

7. In naming a pyramid or a prism, you must consider the shape of _____.

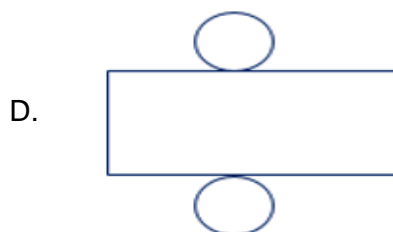
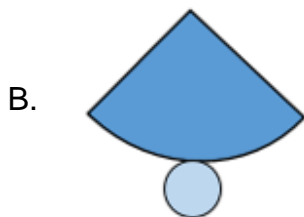
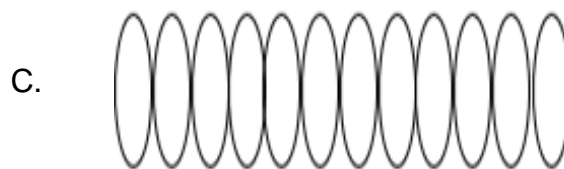
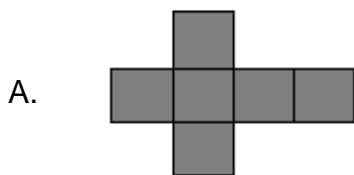
- A. Faces and Vertices
- B. Vertices and Lines
- C. Faces and Base/s
- D. Edges and Apex

8. What kind of base can be formed using the given net.

- A. Circular base
- B. Triangular base
- C. Rectangular base
- D. Square base



9. Which has two parallel circular bases and curved surface.



10. Why is it important to study solid figures?
- A. so that we can get good grades.
 - B. because it's part of our daily life and we use them every day.
 - C. because we see them in the module
 - D. so the teachers will have something to check



Additional activities:

Write five objects that you see in your house and identify its solid figure

Name	Solid figure
1. _____	_____
2. _____	_____
3. _____	_____
4. _____	_____
5. _____	_____

References

Lumbre, Angelina P., Alvin C. Ursua, Donnel P. Placer, and Jaime R. Burgos. *21st Century Mathletes Textbook for Grade 5*. edited Mercurio T. Elenzano, EdD, Chin Uy, Ph.D..Quezon City.Vibal Group, Inc..2016

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