Third Grading

Lesson 62. Visualizing, Naming and Describing Polygons with 5 or More Sided Polygons

Week 3

Objective: Visualizes, names and describes polygons with 5 or more sides.

Value focus : cooperation

Prerequisite Concepts / Skills

- ► Identifying Geometric figures
- ► Kinds of angles

Materials : cut-outs, geoboard

References: K to 12 Grade 5 Curriculum Guide, p 61
Lesson Guide in Elementary Mathematics 5, p. 350-357

A. Preliminary Activities

1. Drill

Korek ka ba dyan?

Mechanics:

a. Group the pupils into 4's.

b. Distribute envelopes with geometric figure to each group such as drawings of parallel lines, intersecting lines, ray, line segment, perpendicular lines.

c. As the teacher flashes the words, the pupils will get from the envelope the geometric figures and put it on the board assigned for the groups.

2. Review

"What am I" – kinds of angles

The teacher flashes a card with the following questions. Let it be answered by the pupils.

a. I measure less than 90°.
b. I measure 110°
c. I measure 18°
d. I measure 90°
e. I measure more than 90° but less than 180°

3. Motivation

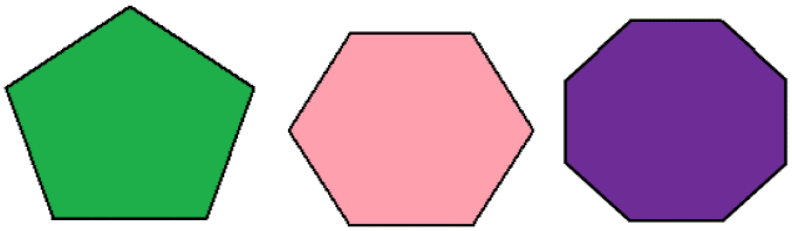
The teacher shows different cutouts and real objects.

What do you see class?
How many sides are there in the picture?

B. Developmental Activities

1. Presentation

Present these figures using a geoboard.



How many sides are there in the polygon shown in the geoboard?
What do you call a polygon with 5 sides? 6 sides? 7 sides? Etc?
Let the pupils show 5, 6, 7, etc. sided polygon using the geoboard and identify it.

2. Performing the Activities

Material : cut-outs of 5-12 sided polygons.

Mechanics :

a. Group the pupils into four.
b. She or he distributes cutouts placed in an envelope.
c. Let the pupils paste the cutouts intended for the different column as shown below.

Cutout	Number of sides	Name of polygon
	5 sides	

3. Processing the Activities

Call a leader to report for the group.

Ask. What are the different kinds of polygon?

How are they identified?

Present the chart of the different kinds of polygon

Polygon	Graphic	Sides	Angles	Vertices
Triangle		3	3	3
Quadrilateral		4	4	4
Pentagon		5	5	5
Hexagon		6	6	6
Heptagon or Septagon		7	7	7
Octagon		8	8	8
Nonagon or Novagon		9	9	9
Decagon		10	10	10
Dodecagon		12	12	12

4. Reinforcing the Concept and Skill

Discuss the presentation under ***Explore and Discover*** on page ___, LM Math Grade 5. Let the pupils do the activity under ***Get Moving*** on page ___, LM Grade 5. Check the pupil's work.

For more practice, let them answer ***Keep Moving*** on page _____, LM Grade 5.

5. Summarizing the Lesson

Ask: What are polygons?

How are they classified?

> Polygons are closed plane figure that formed by the line segments that meet only at their endpoints. The line segments are the sides and the endpoints where sides meet are the vertices.
>
> Polygons are classified according to the number of their sides and angles.

6. Applying the New and Other Situations

Name the figure below.

Let the pupils do items under ***Apply Your Skills*** on page ___, LM Math Grade 5.

C. Assessment

Match column A with column B.

A	B
1. a polygon with 5 sides	a. pentagon
2. a polygon with 10 sides	b. octagon
3. a polygon with 8 sides	c. nonagon
4. a polygon with 6 sides	d. hexagon
5. a polygon with 9 sides	e. decagon

D. Home Activity

Remediation

Complete each statement.

a. Dodecagon has ____ angles
b. a nonagon has _____ vertices
c. an octagon has _____ angles
d. A decagon has _____ vertices
e. A heptagon has _____ sides

Enrichment

Encircle the polygons. Explain why the others are not polygons.

a. 

b. 

c. 

d. 

e.