

Third Grading

Lesson 64. Drawing Polygons with 5 or More Sides

Week 3

Objective: Drawing polygons with 5 or more sides.

Value focus : cooperation

Prerequisite Concepts / Skills

► Identifying Polygons

Materials : cut-outs, toy eggs, plastic straws

References: K to 12 Grade 5 Curriculum Guide, p 61

Lesson Guide in Elementary Mathematics 5, p. 354-357

Math for Life 5, p 298

Mathematics for a Better Life 5, p. 218-219

A. Preliminary Activities

1. Drill

Complete the table.

No. of sides	Name of polygon
6	_____
_____	Pentagon
_____	Nonagon
10	_____
12	_____
_____	Undecagon
7	_____

2. Review

- Checking of assignments
- Guessing Game

Choose a question inside an egg.

- What polygon has 10 sides? (decagon)
- What polygon has congruent sides and angles? (regular polygons)
- How many sides are there in a dodecagon? (12)
- What polygon has the least number of sides? (triangle)
- What polygon has 9 sides?(nonagon)

3. Motivation

What is an angle?

How do we measure an angle?

What instrument is used to measure an angle?

B. Developmental Activities

1. Presentation

Present the table showing the different kinds of polygon.

Name of Polygon	Number of Sides
Pentagon	5
Hexagon	6
Heptagon	7
Octagon	8
Nonagon	9
Decagon	10
Undecagon	11
Dodecagon	12

Can you construct/ draw a polygon?

2. Performing the Activities

Material : plastic straws

Mechanics :

- Group the pupils into 4 with 3 members each..
- Each group will be given set of plastic straws.
- Using the plastic straws, connect the ends to form a figure
- Paste it in a bond paper, then show to the class.

3. Processing the Activities

Call a leader to report for the group.

Ask: What figure is formed? What can you say about its sides?

Is it regular or irregular? Why?

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?

What are different types of polygons according to the number of sides?

Polygons are closed plane figure that formed by the line segments that meet only at their endpoints.

Examples of polygons are:

- Pentagon – 5 sides
- Hexagon – 6 sides
- Heptagon – 7 sides
- Octagon – 8 sides
- Nonagon – 9 sides
- Decagon – 10 sides

6. Applying the New and Other Situations

Draw the following:

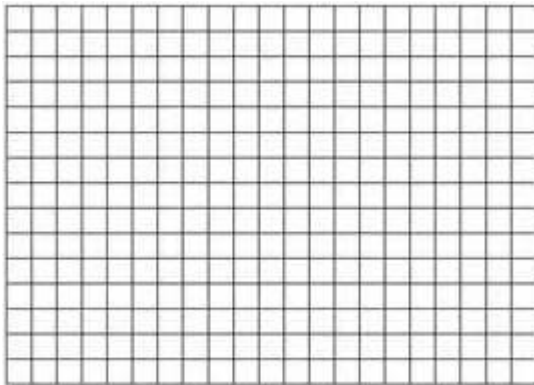
- a. heptagon
- b. hexagon
- c. decagon
- d. octagon
- e. nonagon

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

C. Assessment

Use the grid paper to draw the following polygons.

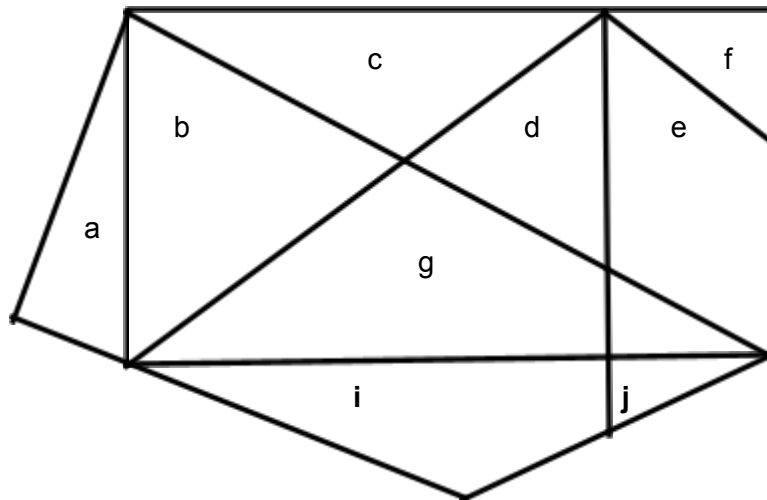
- a. pentagon
- b. octagon
- c. nonagon
- d. heptagon
- e. hexagon



D. Home Activity

Remediation

The figure is divided into smaller regions. Each region is lettered. Name the polygon formed by combining the regions.



1. b, c, d, g form a _____
2. g, d, f, e, h form a _____
3. f, e, h form a _____
4. j, h, e, f form a _____
5. b, c, d, e, f, g form a _____
6. a, b, c, d, g, l form a _____

Enrichment

Draw what is described in each.

- a. a right triangle inside a hexagon
- b. a square that shares a common side with a triangle.
- c. a pentagon inside a circle