

## Lesson 65: Visualizing Congruent Polygons

Week 4

**Objective:** Visualize congruent polygons

Value Focus: Wise Judgement

### Prerequisite Concepts and Skills

- Visualizing congruence of polygons
- Identifying congruent polygons

**Materials:** circular cut outs, PPT presentation

**References:** K to 12 Curriculum Guide, M5GE-IIIId-22

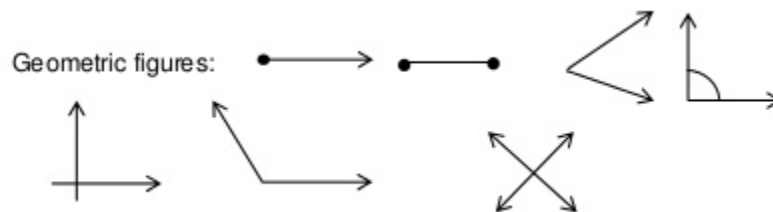
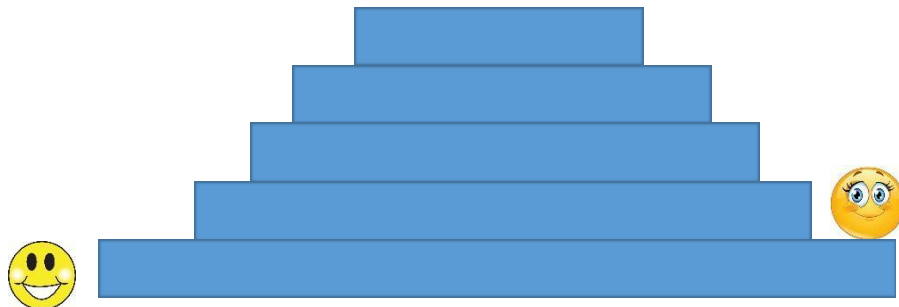
### Instructional Procedure:

#### A. Preliminary Activities

##### 1. Drill

Climbing the ladder mechanics.

- ☐ Group the pupils into two; boys and girls. Let them select one representative for each question.
- ☐ Flash the cutouts of each geometric figures and let it be identified.
- ☐ The pupils who will answer the question will step one ladder up. The first group to reach the top will be the winner.



## 2. Review

Guessing game- What am I?

- a. I am 3-sided polygon with congruent sides.
- b. I am a 4-side polygon with congruent sides.
- c. I have 10 sides.
- d. I am a four sided polygon with one pair of parallel side.
- e. I have 8 sides.
- f. I have 6 sides.

## 3.) Motivation

Look at our blackboards. Do they have the same size and shape? Look around the room. What objects have the same size and shape?

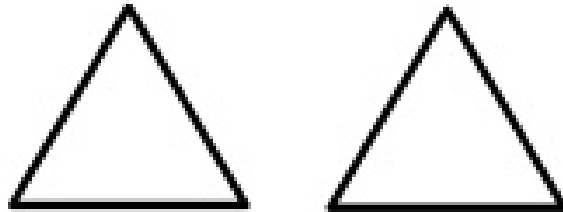
## B. Developmental Activities

### 1. Presentation

Materials: cut outs of polygons, ruler, protractor

Mechanics:

- a. Group the pupils into 4's.
- b. Distribute envelopes with cut outs of polygons.
- c. Let the pupils trace the polygons inside the envelope and cut it with scissors. Let them measure the sides and the angles. Let them paste the polygons in pair in the board.



- d. Ask the pupils: What polygons have you traced and cut? What can you say about the size, shape and angles?

## 2. Performing the Activity

What are the names of the polygons that are congruent?

What are their measurement?

What do you call the polygons that have the same size and shape?

## 3. Processing the Activities

After the activity, ask the pupils what did they use to say that a polygon is congruent? Were they able to answer the questions? Put immediate action on the pupils that find it hard to perform/answer the activity.

## 4. Reinforcing the Concept Skill

a. Discuss the presentation on Explore and Discover on page \_\_\_\_ of LM in Math Grade 5

b. Ask the pupils to work on Get Moving on page \_\_\_\_ of LM in Math Grade 5

## 5. Summarizing the Lesson

Lead the pupils that:

Two polygons are congruent if:

a. Both have the same shape and size.

b. Tracing of one fits the other.

c. Their corresponding angles and sides are congruent.

## 6. Applying to New and Other Situations

1. Look at the things inside the classroom and identify the congruent sides or faces.

a. books

d. tables

b. chalkboard

e. walls

c. cabinets

2. Find pair of figure in your classroom that shows congruency.

3. Differentiate identical objects. How are they similar?

## C. Assessment

Write the letter of the figure that is congruent to the first figure.

1.



a)



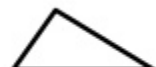
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c)



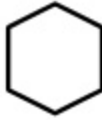
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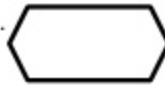
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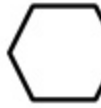
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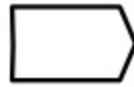
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c.



d.



3.



a.



b.



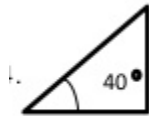
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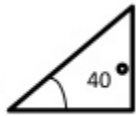
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4.



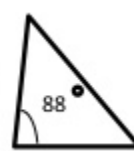
a.



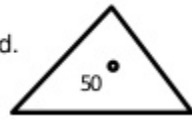
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c.



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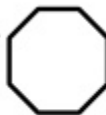
5.



a.



b.



c.



d.



### D. Home Activity Remediation

Draw 2 congruent figures of the following polygons.

1. trapezoid
2. octagon
3. pentagon
4. isosceles
5. decagon

## Enrichment

Which figures appear to be congruent? Name the pairs.

