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DepED
DEPARTMENT OF EDUCATION

Learning Activity Sheet for Mathematics

Quarter 2
Lesson
3

Learning Activity Sheet for Mathematics Grade 8
Quarter 2: Lesson 3 (Week 3)
SY 2025-2026

Development Team

Writer:

- Yahweh M. Pasahol (Pedro Guevara Memorial National High School)

Validator:

- Roldan S. Cardona (Philippine Normal University – North Luzon)

Management Team

Philippine Normal University
Research Institute for Teacher Quality
SiMERR National Research Centre

LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	2
Lesson No.:	3	**Date:**	
Lesson Title/ Topic:	Recalling Volume of a Cube		
Name:		**Grade & Section:**	

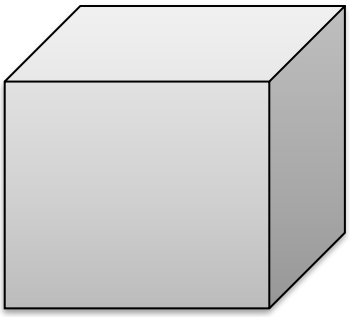
I. Activity No. 1: How Much Do You Know? (5minutes)

II. Objective(s): To recall how to find the volume of a cube.

III. Materials Needed: activity sheet, pen

IV. Instructions: Answer the following. Show you solution.

What is the formula in finding the volume of a cube?



Find the volume of a cube given the following side:

1. 4 cm.
2. 5 in.
3. 6 dm.
4. 7 cm.
5. 8 in.

V. Synthesis:

1. How did you find the volume of each cube?

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2. How did you find the activity? Can you share and describe your experience?

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LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	2
Lesson No.:	3	**Date:**	
Lesson Title/ Topic:	Finding the volume of square and rectangular pyramids.		
Name:		**Grade & Section:**	

I. **Activity No. 2:** (8 minutes)

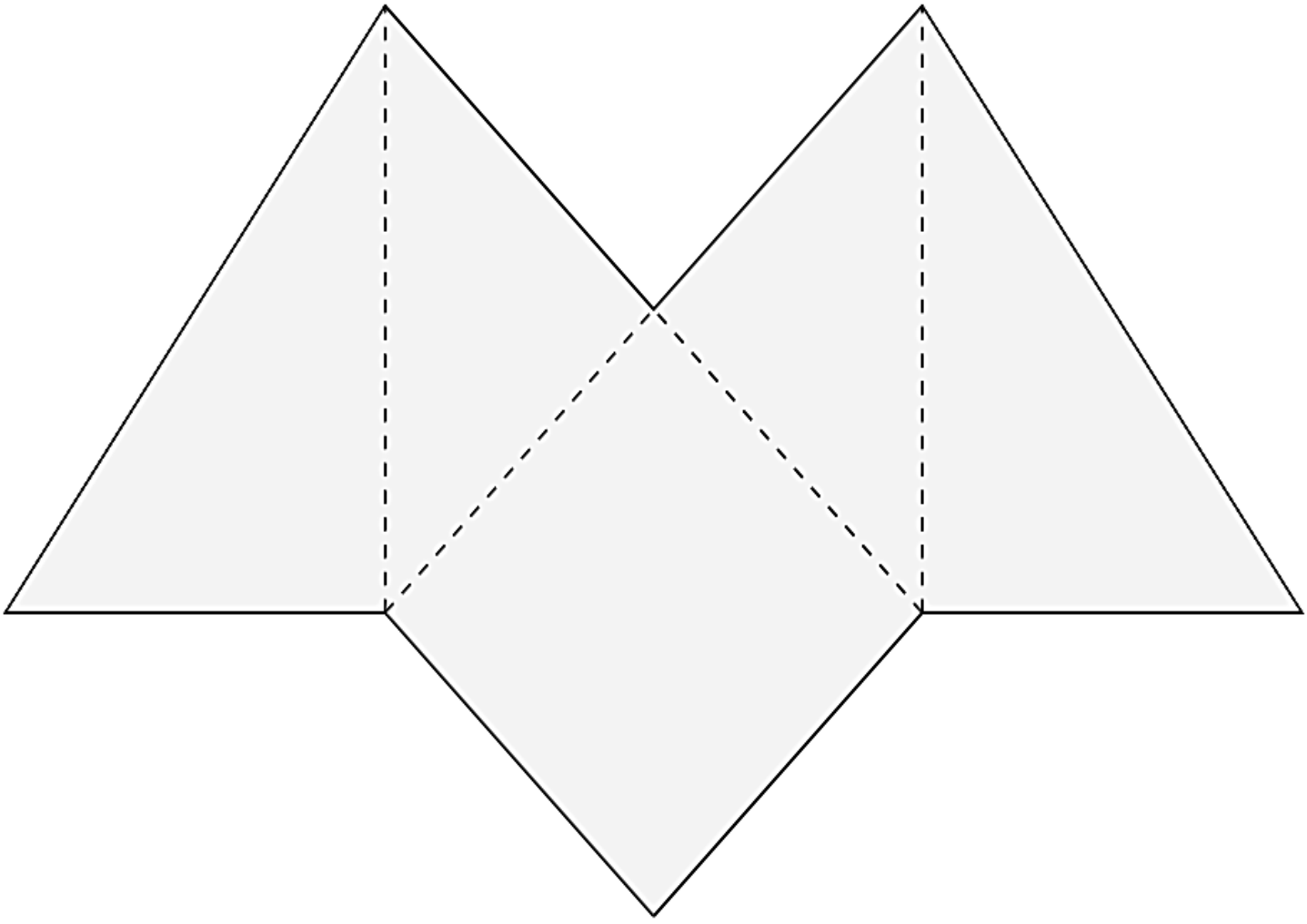
II. **Objective(s):** At the end of the lesson, the students are able to:

a. create a cube from pyramids thru a cut-out activity; and

b. derive the formula in finding the volume of a pyramid from the volume of a cube.

III. **Materials Needed:** activity sheet, scissors, glue or tape

IV. **Instructions:** Using the given template, cut the figure. Make sure not to cut the broken lines. Join the edges using a glue or tape. Make 2 more that are exactly the same. Join these 3 pieces and forma cube



V. Synthesis:

1. What three-dimensional shape was formed from the template that you cut?

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2. How many of these figures can form a cube?

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3. What can you say about the volume of a pyramid as compared to the volume of a cube?

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4. How did you find the activity? Can you share and describe your experience?

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LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	2
Lesson No.:	3	**Date:**	
Lesson Title/ Topic:	Volume of a Square Pyramid and Rectangular Pyramid		
Name:		**Grade & Section:**	

I. Activity No. 3: (15 minutes)

II. Objective(s): At the end of the lesson, the students are able to:

a. find the volume of a square pyramid and a rectangular pyramid; and
b. solve problems involving volume of a square pyramid and a rectangular pyramid.

III. Materials Needed: activity sheet, pen

IV. Instructions:

A. Solve for the following problem:

1. Find the volume of a pyramid with a rectangular base measuring 6 cm by 9 cm and height 19 cm.

2. A square pyramid has a height of 17 m and a base that measures 12 m on each side. Find the volume of the pyramid.

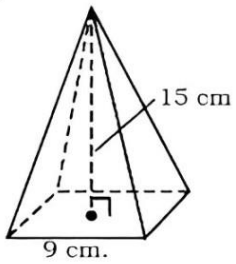
3. A rectangular pyramid has a base with dimensions of 9 meters and 13 meters respectively and its height measures 15 meters. Find the volume of the pyramid.

4. What is the volume of a pyramid whose square base has a length of 15 inches and a height of 21 inches?

5. Find the volume of a pyramid whose base dimensions are 11 and 15 inches and whose height is 21 inches.

B. Find the volume of the following figures.

1.



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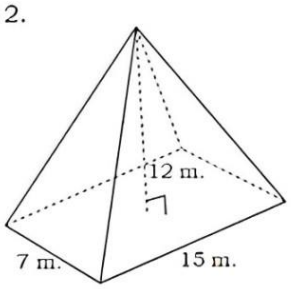

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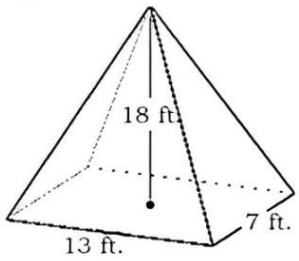

V. Synthesis:

1. Which among the problems you solved is the easiest? Why?

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2. Which among the problems you solved is the most challenging? Why?

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3. How did you find the activity? Can you share and describe your experience?

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LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	2
Lesson No.:	3	**Date:**	
Lesson Title/ Topic:	Volume of pyramids with regular polygons as the base.		
Name:		**Grade & Section:**	

I. Activity No. 4: (10 minutes)

II. Objective(s): At the end of the lesson, the students are able to:

a. find the volume of some regular pyramids using the given the figures; and
b. solve problems involving volume of some regular pyramids.

III. Materials Needed: Activity sheet, pen

IV. Instructions: Answer the following. Show your solutions.

1. Find the volume of a pentagonal pyramid given the side length and its height. (Round off your answers to the nearest hundredths)
   a) side length is 1 meter, height is 3 meters
   b) side length is 5 centimeters, height is 8 centimeters
   c) side length is 9 inches, height is 12 inches
   d) side length is 3 meters height is 7 meters
   e) side length is 11 feet height is 13 feet

2. What is the volume of a regular triangular pyramid with the given side. (Round off your answers to the nearest hundredths)
   a) 4 inches
   b) 9 centimeters
   c) 11 feet
   d) 1 meter
   e) 15 inches

3. Find the volume of a hexagonal pyramid given the side length and its height. (Round off your answers to the nearest hundredths)
   a) side length is 1 meter, height is 3 meters

   b) side length is 5 centimeters, height is 8 centimeters

   c) side length is 9 inches, height is 12 inches

   d) side length is 3 meters height is 7 meters

   e) side length is 11 feet height is 13 feet

V. Synthesis:

1. Which among the problems you solved is the easiest? Why?

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2. Which among the problems you solved is the most challenging? Why?

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3. How did you find the activity? Can you share and describe your experience?

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LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	2
Lesson No.:	3	**Date:**	
Lesson Title/ Topic:	Volume of pyramids with irregular polygons as the base.		
Name:		**Grade & Section:**	

I. Activity No. 5: (10 minutes)

II. Objective(s): At the end of the lesson, the students are able to:

a. find the volume of some irregular pyramids using the given the figures; and

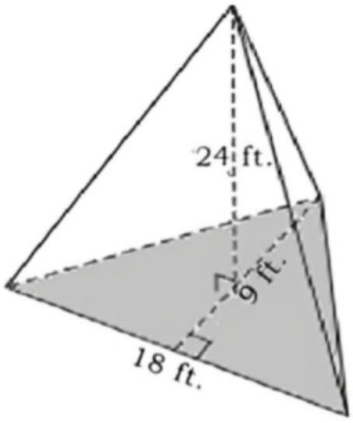
b. solve problems involving volume of some irregular pyramids.

III. Materials Needed: Activity sheet, pen

IV. Instructions: Answer the following. Show your solutions.

A. Find the volume of the following pyramid.

1.



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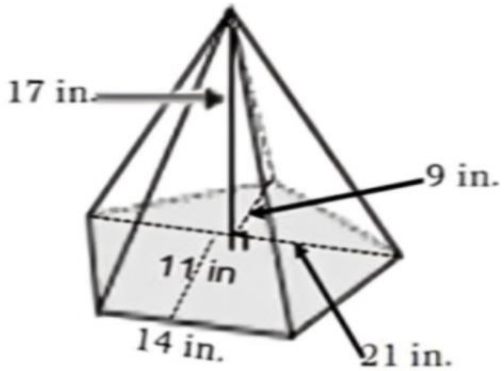

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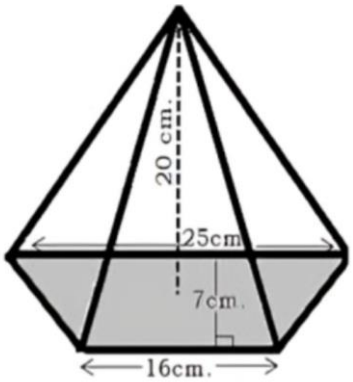

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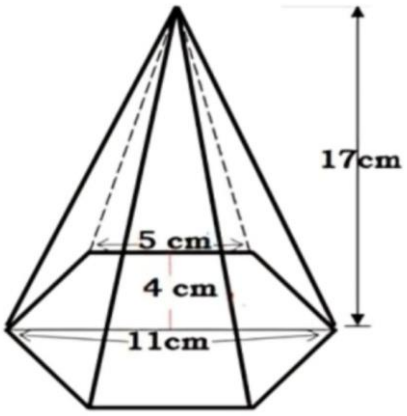

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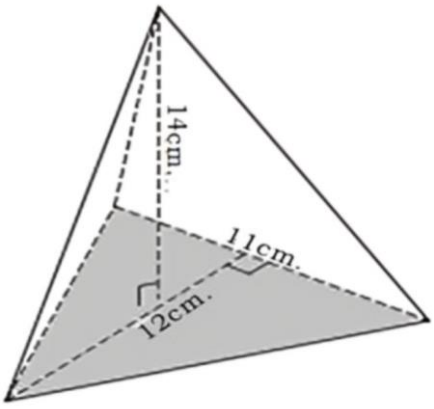

B. Solve the following problems. (Round off your answers to the nearest hundredths)

1. Find the volume of a pyramid with a triangular base. The base has a length of 6 in and a height of 8 in, while the height of the pyramid is 12 in.

2. The steel machine part shown below has a base area of 32.5 in^2 and a height of 7.8 in. The steel weighs 10.2 grams per cubic inch. How much does this part weigh?

3. A right pyramid whose height is 23 cm. has a trapezoid base. The lengths of the bases are 17cm and 14cm respectively and the trapezoid's height is 8cm. Find its volume.

4. The height of the base of a triangular pyramid has a length of 10 dm and its base measures 12 dm. The height of the triangular pyramid is 17dm. What is its volume?

5. The base of this pyramid is a right triangle with legs of 11 inches and 7inches and the height of the pyramid is 12 inches. Find the volume of the pyramid.

V. Synthesis:

1. Which among the problems you solved is the easiest? Why?

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2. Which among the problems you solved is the most challenging? Why?

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3. How did you find the activity? Can you share and describe your experience?

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