

8

Learning Activity Sheet for Mathematics

Quarter 2

Lesson

3

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

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LEARNING ACTIVITY SHEET

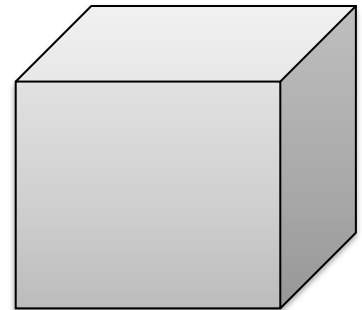
Learning Area:	Mathematics	Quarter:	2
Lesson No.:	3	Date:	
Lesson Title/ Topic:	Recalling Volume of a Cube		
Name:		Grade & Section:	

- 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:

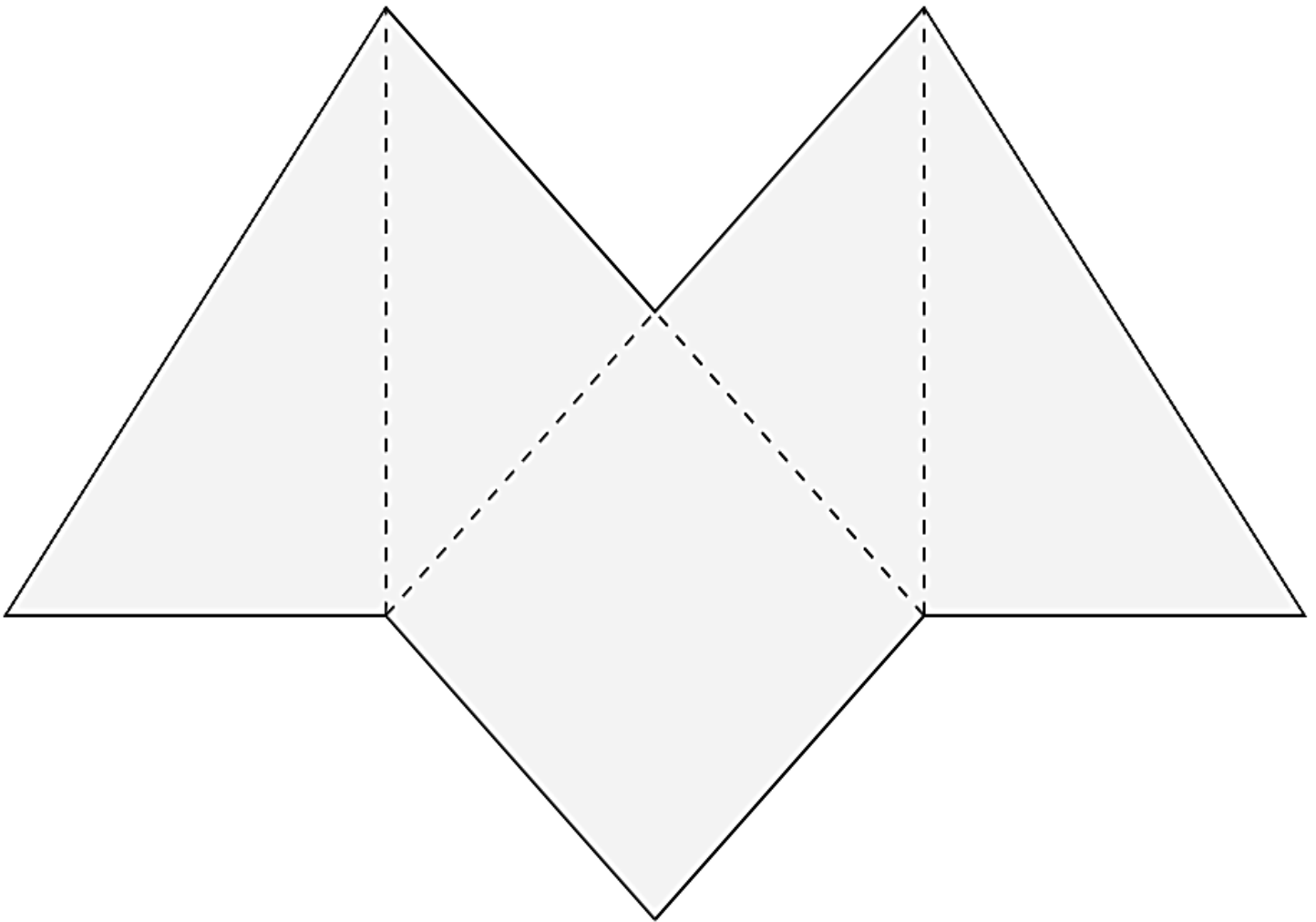
1. How did you find the volume of each cube?

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

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



V. Synthesis:

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

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

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

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

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:

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

III. Materials Needed: activity sheet, pen

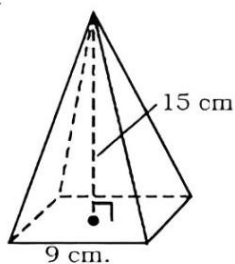
IV. Instructions:

A. Solve for the following problem:

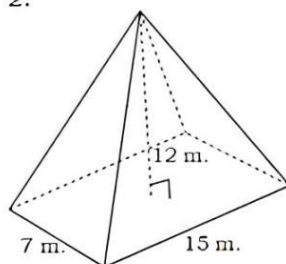
- Find the volume of a pyramid with a rectangular base measuring 6 cm by 9 cm and height 19 cm.
- A square pyramid has a height of 17 m and a base that measures 12 m on each side. Find the volume of the pyramid.
- A rectangular pyramid has a base with dimensions of 9 meters and 13 meters respectively and its height measures 15 meters. Find the volume of the pyramid.
- What is the volume of a pyramid whose square base has a length of 15 inches and a height of 21 inches?
- 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.

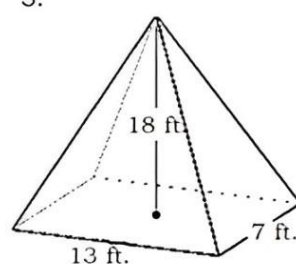
1.



2.



3.



V. Synthesis:

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

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

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

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:
- find the volume of some regular pyramids using the given the figures; and
 - solve problems involving volume of some regular pyramids.
- III. Materials Needed:** Activity sheet, pen
- IV. Instructions:** Answer the following. Show your solutions.
- Find the volume of a pentagonal pyramid given the side length and its height. (Round off your answers to the nearest hundredths)
 - side length is 1 meter, height is 3 meters
 - side length is 5 centimeters, height is 8 centimeters
 - side length is 9 inches, height is 12 inches
 - side length is 3 meters height is 7 meters
 - side length is 11 feet height is 13 feet
 - What is the volume of a regular triangular pyramid with the given side. (Round off your answers to the nearest hundredths)
 - 4 inches
 - 9 centimeters
 - 11 feet
 - 1 meter
 - 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?

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

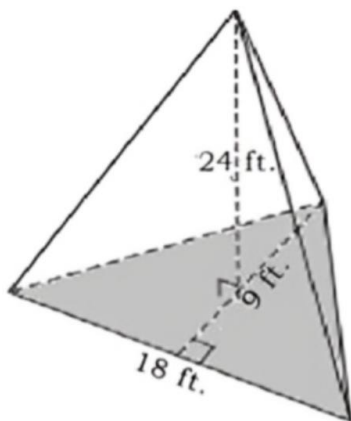
3. How did you find the activity? Can you share and describe your experience?

LEARNING ACTIVITY SHEET

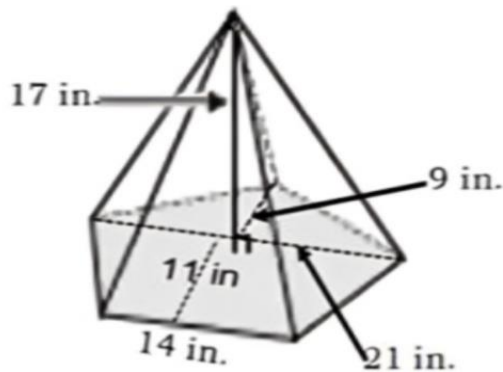
Learning Area:	Mathematics	Quarter:	2
Lesson No.:	3	Date:	
Lesson Title/ Topic:	Volume of pyramids with irregular polygons as the base.		
Name:		Grade & Section:	

- I. Activity No. 5:** (10 minutes)
- II. Objective(s):** At the end of the lesson, the students are able to:
- find the volume of some irregular pyramids using the given the figures; and
 - 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.

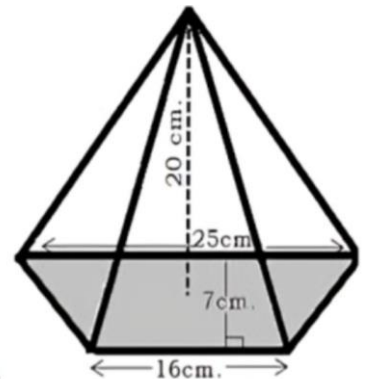
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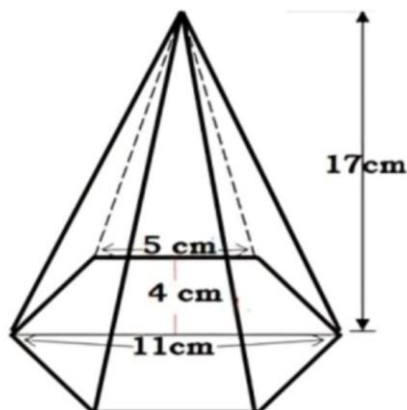
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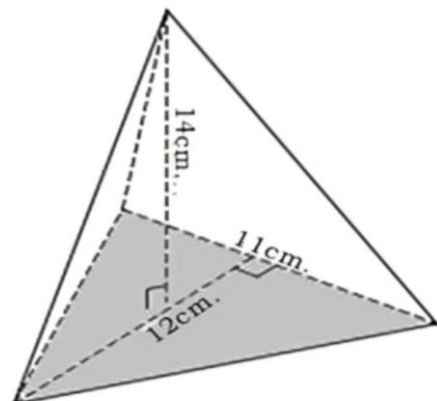
3.



4.



5.



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?

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

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