

7

Learning Activity Sheet for Mathematics

Quarter 2

Lesson

6

Worksheet for Mathematics Grade 7
Quarter 2: Lesson 6 (Week 6)
SY 2024-2025

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Development Team

Writers:

- Kemmons S. Kilat (Silliman University)
- Renner D. Daya (University of Mindanao)

Validator:

- Clemente M. Aguinaldo Jr. (Philippine Normal University – North Luzon)

Management Team

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

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LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	Quarter:	2
Lesson No.:	6	Date:	
Lesson Title/ Topic:	Volume of Square Pyramids		
Name:		Grade & Section:	

- I. Activity No. 1:** Short Review (15 mins.)
- II. Objective(s):** The learner should be able to solve the volume of a rectangular pyramid.
- III. Materials Needed:** pen, paper, and calculator
- IV. Instructions:** Find the volume of the solid figure described by doing the following steps
- Draw the solid figure with measurements.
 - Answer the guide questions in complete sentences.
 - Show solutions in the space provided.
-
- A rectangular pyramid has a length of 9 inches, a width of 6 inches, and a height of 4 inches. Find the volume of the pyramid.
 - What is asked in the problem?

 - What is the unit used in the problem?

 - What is the volume of the rectangular pyramid?

 - A rectangular pyramid has a width of 2 ft, a length of 6 ft, and a height of 10 ft. Find the volume of the pyramid.
 - What is asked in the problem?

 - What is the unit used in the problem?

 - What is the volume of the rectangular pyramid?

 - A rectangular pyramid has a base area of 90 ft^2 and a height of 12 ft. Find the volume of the pyramid.
 - What is asked in the problem?

- What is the unit used in the problem?

- What is the volume of the rectangular pyramid?

4. The base area of a rectangular pyramid is 180 square feet. If its height is 9 feet, what is its volume?

- What is asked in the problem?

- What is the unit used in the problem?

- What is the volume of the rectangular pyramid?

V. Synthesis/Extended Practice/Differentiation (if needed):

1. How did you find the activity? Describe your experience.

LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	Quarter:	2
Lesson No.:	6	Date:	
Lesson Title/ Topic:	Volume of Square Pyramids		
Name:		Grade & Section:	

- I. Activity No. 2:** Exercise No. 1 (20 mins.)
- II. Objective(s):** The learner should be able to the volume of square pyramid.
- III. Materials Needed:** pen, paper, and calculator
- IV. Instructions:** Find the volume of the solid figures described by doing the following steps.
1. Draw the solid figure with measurements.
 2. Answer the guide questions in complete sentences.
 3. Show solutions on the space provided.

1. A square pyramid has a base edge of 7 inches and height of 5 inches. Find the volume of the square pyramid.

- What is asked in the problem?

- What is the unit used in the problem?

- What is the volume of the square pyramid?

2. A square pyramid has a height of 20 ft and a base width of 5 ft. What is the volume of the pyramid?

- What is asked in the problem?

- What is the unit used in the problem?

- What is the volume of the square pyramid?

3. A square pyramid has a base area of 121 ft^2 and a height of 9 ft. Determine the volume of the pyramid.

- What is asked in the problem?

- What is the unit used in the problem?

- What is the volume of the square pyramid?

4. The Louvre Pyramid in Paris, France has a height of 71 ft. Its square base has sides of 34 meters. Find the volume of the pyramid.

- What is asked in the problem?

- What is the unit used in the problem?

- What is the volume of the Louvre Pyramid?

5. The roof of a house is in the form of a square pyramid. If its volume is 256 cubic feet and the base edge is 8 feet, how high is the roof?

- What is asked in the problem?

- What is the unit used in the problem?

- What is the height of the roof?

V. Synthesis/Extended Practice/Differentiation (if needed):

1. How did you find the activity? Describe your experience.

LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	Quarter:	2
Lesson No.:	6	Date:	
Lesson Title/ Topic:	Volume of Rectangular Pyramids		
Name:		Grade & Section:	

- I. Activity No. 3:** Exercise No. 2 (20 mins.)
- II. Objective(s):** The learner should be able to determine the volume of square pyramid.
- III. Materials Needed:** pen, paper, and calculator
- IV. Instructions:** Solve the following problems completely. Follow the steps below:
1. Draw the solid figure with measurements.
 2. Show solutions on the space provided.
 3. Write final answers in sentence form.
 4. Be guided by the rubric.

Rubric/Score Guide (if needed)

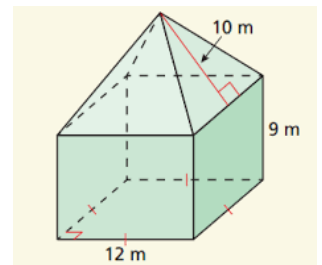
Criteria	Points	Accumulated Points
Accuracy of solution	5	
Correct diagram	3	
Proper use of mathematical symbols	2	
Correct final Answer	5	
Total	15	

1. Lina received a gift from her parents. The package of the gift is in the form of a square pyramid. The base edge of the pyramid is 20 cm while its height is 8 cm. Find the volume of the package of the gift.

2. Bitoy is constructing a container in the shape of a square pyramid for a project. He wants the base of the pyramid to measure 6 inches by 6 inches and the height of the pyramid to be 15 inches. How many cubic inches could the pyramid hold?

3. On a trip to Egypt, Kiray bought a small stone in the shape of a square pyramid as a souvenir. This has a height of 2 in and a base area of 2.25 in^2 . Determine the volume of the stone.

4. Find the volume of the composite solid shown.



V. Synthesis/Extended Practice/Differentiation (if needed):

1. How did you find the activity? Describe your experience.

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Learning Area:	Mathematics	Quarter:	2
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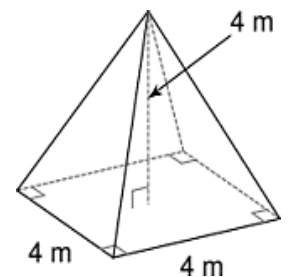
- I. Activity No. 5:** Formative Assessment (45 mins.)
- II. Objective(s):** The learner should be able to determine the volume of square pyramids.
- III. Materials Needed:** pen, paper, and calculator
- IV. Instructions:**
 - A. Multiple Choice.** Read each problem carefully. Encircle the letter of the correct answer.

- Find the volume of a pyramid with a base area of 24 square centimeters and a height of 12 centimeters.

- a. 36 cm^3
b. 56 cm^3
c. 96 cm^3
d. 288 cm^3

2. Given the figure, solve for the volume.

- a. $64/3 \text{ m}^3$
b. $32/3 \text{ m}^3$

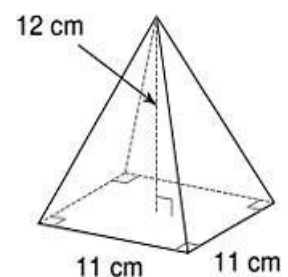


3. Find the volume of a square pyramid that has a side length of 3 ft, a width of 2 ft, and a height of 5 ft.

- a. 60 ft³
b. 45 ft³

4. Given the pyramid below, what is its volume?

- a. 626 cm^3
b. 484 cm^3



B. Problem-solving. Solve the following problems completely.

1. Draw the solid figure with measurements.
2. Show solutions in the space provided.
3. Write the final answers in sentence form.

1. A planter in the shape of a square pyramid is being filled with soil. The pyramid has a base length of 10 inches and a height of 12 inches. Soil costs Php 1.50 per cubic inch. What is the volume of the planter? How much (in Php) is the cost of the soil in the planter?

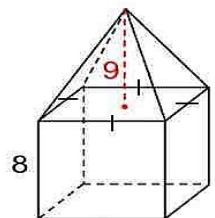
Write your solution here.

2. A paperweight made of glass is sold as a souvenir at a tourist center. The height of the pyramid paperweight is 4 inches, and its base area is 9 square inches. How much glass, in cubic inches, is needed to manufacture 200 paperweights?

Write your solution here.

3. Find the volume of the composite solid shown in cubic centimeters.

Write your solution here.

**V. Synthesis/Extended Practice/Differentiation (if needed):**

1. How did you find the activity? Describe your experience.
