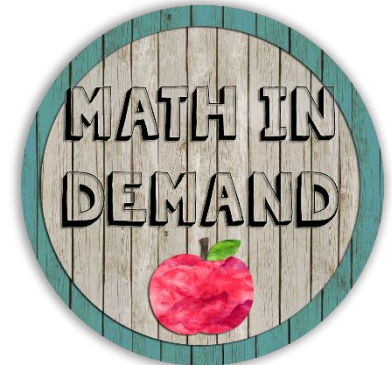


VOLUME OF PYRAMIDS

INTERACTIVE NOTEBOOK NOTES



INCLUDES:

**- SQUARE
PYRAMID**

**- RECTANGULAR
PYRAMID**

**- TRIANGULAR
PYRAMID**

Geometry
(Volume of Pyramids)

I can _____

Vocabulary: What is volume?

Volume is measured in _____ units.

Here are 3 types of pyramids:

Pyramid	Pyramid	Pyramid

The volume of all the pyramids is $V = \frac{1}{3} \times \text{base area} \times \text{height}$ where _____ is the height.

The base is a _____	The base is a _____
Volume _____	Volume _____

Your Turn

Geometry
(Volume of Pyramids)

On a rating of 1-5, how comfortable are you with this concept? (5 is the highest)

1 2 3 4 5

1.) Calculate the volume:

15 ft

12 ft

Answer _____

2.) Calculate the volume:

8 ft

14 ft

9 ft

Answer _____

3.) Calculate the volume:

10 ft

4 ft

15 ft

Answer _____

Reflection: I learned...

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Math in Demand

Teacher Notes

- I have my students glue the two pages in their interactive notebooks.
- I like to go over the first page with my students then have them apply what they learned on the second page.
- I will walk around the classroom and check for understanding.
- I will call students up to the board to perform the three problems given on the second page.
- These are only suggestions. You can decide however you want to present the material to your students.
- If you have any questions or concerns, please email me at mathindemand@hotmail.com.

Geometry
(Volume of Pyramids)

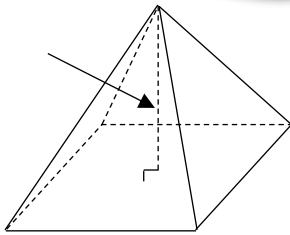
I can _____

Volume is
measured in
_____ units

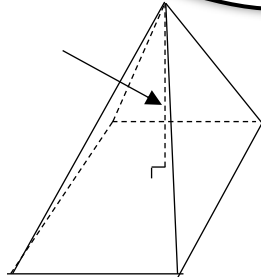
Vocabulary: What is volume?

Here are 3 types of **pyramids**:

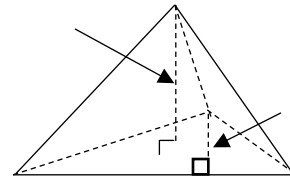
Pyramid



Pyramid



Pyramid



The volume of all the pyramids are:
 $V = \underline{\quad} \cdot \underline{\quad} \cdot \underline{\quad}$ where $\underline{\quad}$ is the $\underline{\quad}$.

The base is a

Volume

The base is a

Volume

The base is a

Volume

Your Turn

Geometry

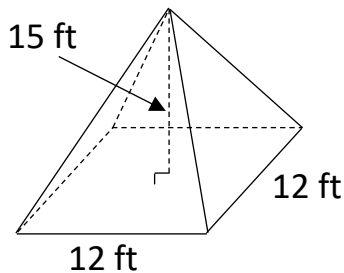
(Volume of Pyramids)

On a rating of 1-5, how comfortable are you with this concept?

(5 is the highest)

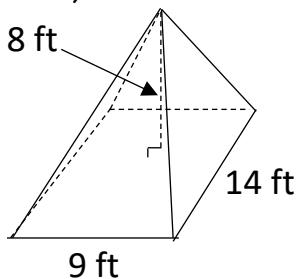
1 2 3 4 5

1.) Calculate the volume:



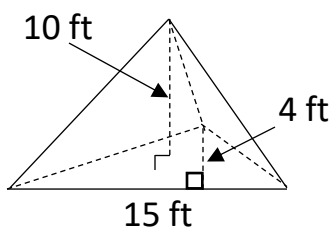
Answer

2.) Calculate the volume:



Answer

3.) Calculate the volume:



Answer

Reflection: I learned...

Geometry
(Volume of Pyramids)

I can calculate the volume of a square pyramid, rectangular pyramid, and triangular pyramid.

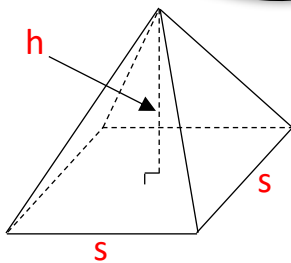
Volume is measured in cubic units

Vocabulary: What is volume?

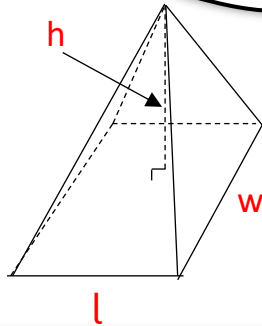
Volume is the amount of space that an object occupies.

Here are 3 types of pyramids:

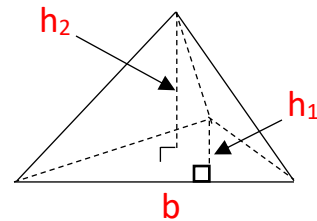
Square
Pyramid



Rectangular
Pyramid



Triangular
Pyramid



The volume of all the pyramids are:
 $V = \frac{1}{3} \cdot B \cdot h$ where B is the base.

The base is a Square

Volume

$$V = \frac{1}{3} \cdot B \cdot h$$

$$V = \frac{1}{3} \cdot (s^2) \cdot h$$

The base is a Rectangle

Volume

$$V = \frac{1}{3} \cdot B \cdot h$$

$$V = \frac{1}{3} \cdot (l \cdot w) \cdot h$$

The base is a Triangle

Volume

$$V = \frac{1}{3} \cdot B \cdot h$$

$$V = \frac{1}{3} \cdot \left(\frac{1}{2}bh_1\right) \cdot h_2$$

Your Turn

Geometry

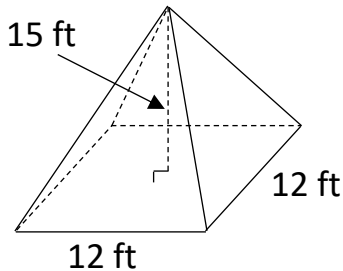
(Volume of Pyramids)

On a rating of 1-5, how comfortable are you with this concept?

(5 is the highest)

1 2 3 4 5

1.) Calculate the volume:



$$V = \frac{1}{3} \cdot (s^2) \cdot h$$

$$V = \frac{1}{3} \cdot (12\text{ft})^2 \cdot 15\text{ft}$$

$$V = \frac{1}{3} \cdot (144\text{ft}^2) \cdot 15\text{ft}$$

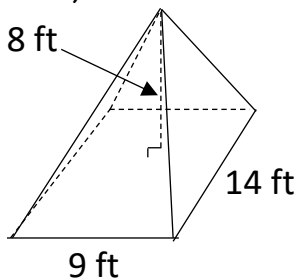
$$V = \frac{1}{3} \cdot (2,160\text{ft}^3)$$

$$V = 720\text{ft}^3$$

Answer

720ft³

2.) Calculate the volume:



$$V = \frac{1}{3} \cdot (l \cdot w) \cdot h$$

$$V = \frac{1}{3} \cdot (9\text{ft} \cdot 14\text{ft}) \cdot 8\text{ft}$$

$$V = \frac{1}{3} \cdot (126\text{ft}^2) \cdot 8\text{ft}$$

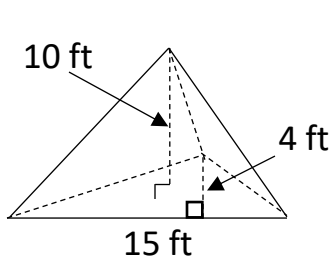
$$V = \frac{1}{3} \cdot (1,008\text{ft}^3)$$

$$V = 336\text{ft}^3$$

Answer

336ft³

3.) Calculate the volume:



$$V = \frac{1}{3} \cdot \left(\frac{1}{2}bh_1\right) \cdot h$$

$$V = \frac{1}{3} \cdot \left(\frac{1}{2}15\text{ft} \cdot 4\text{ft}\right) \cdot 10\text{ft}$$

$$V = \frac{1}{3} \cdot (30\text{ft}^2) \cdot 10\text{ft}$$

$$V = \frac{1}{3} \cdot (300\text{ft}^3)$$

$$V = 100\text{ft}^3$$

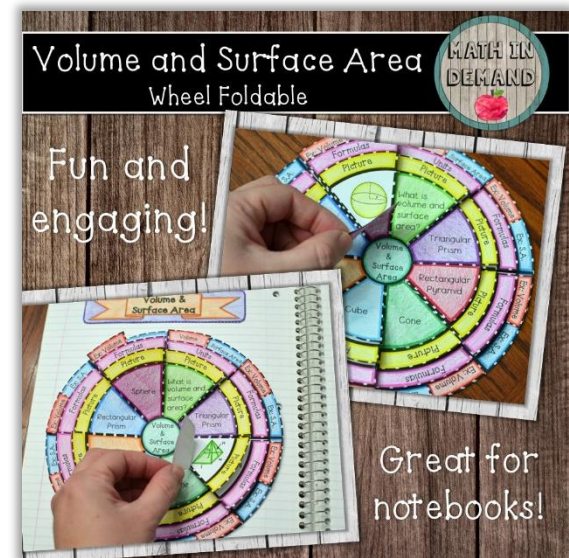
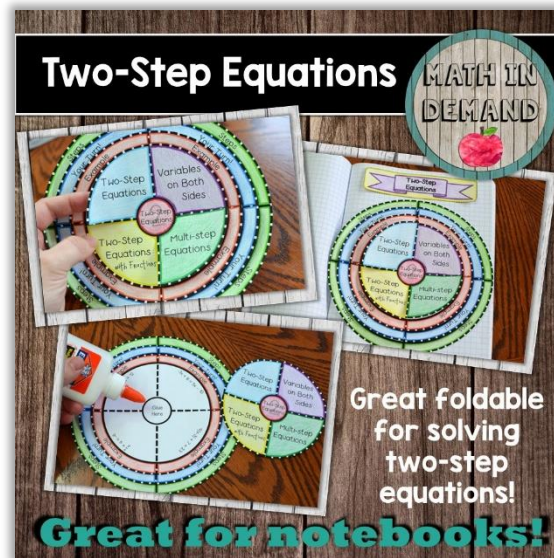
Answer

100ft³

Reflection: I learned...

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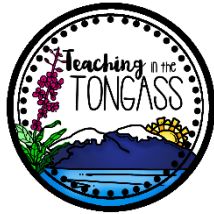
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