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Promethean Board



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Period 3 - Math 7

X Zoey Sean Mason

Jared Carson X X

Grace Sandra Gavin Beckett

Michael Keira Maddox X

X X Charlotte Kate

X X X X X

X X X X

X X

Mrs.  
Fowley

1. Fill in planner
2. Check 7.3 Exercises
3. 7.5 notes discussion and Exercises Pp.328-329
4. Homework: More 7.5 Exercises

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Period 5 - Math 7

  Aubrey Gio

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Jazmen Brenna Hayden Ari

Camryn JJ Cooper Emma

  Greer Colton

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Fowley

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Period 6 - Math 7

Kaleb  Alena Anjula

Simone JP  

 Toby Taz Jonathon

Hunter Liyah  

  Emily David

Sebastian Nick  

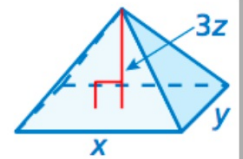
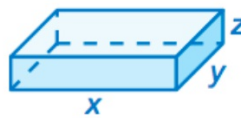
  

Mrs.  
Fowley

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Period 6 check:

20. **Reasoning** Do the two solids have the same volume? Explain.



$$V = B \cdot h$$

$$V = x \cdot y \cdot z$$

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

$$V = \frac{1}{3} \cdot x \cdot y \cdot \underline{3} \cdot \underline{z}$$

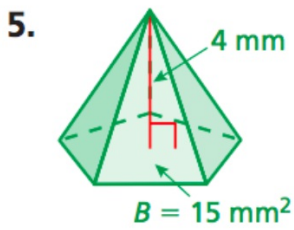
$$V = 1 \cdot x \cdot y \cdot z$$

$$V = x \cdot y \cdot z$$

Yes; same simplified formula

7.3 Exercises #5, 11, & 15

Find the volume of the pyramid.

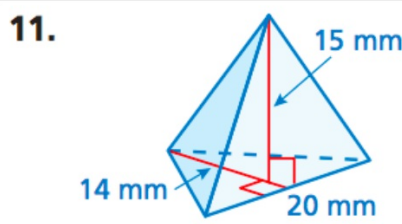


$$V = \frac{1}{3}Bh$$

↳ 15

$$= \frac{1}{3} \cdot 15 \cdot 4$$

$$= \boxed{20 \text{ mm}^3}$$



$$V = \frac{1}{3}Bh$$

↳  $\Delta = \frac{1}{2} \cdot b \cdot h$

$$= \frac{1}{3} \cdot \frac{1}{2} \cdot 20 \cdot 14 \cdot 15$$

$$= \boxed{700 \text{ mm}^3}$$

Copy and complete the table to find the area of the base  $B$  or the height  $h$  of the pyramid.

	$B$	$h$
15.	135 ft <sup>3</sup>	54 ft <sup>2</sup>
		$\boxed{7.5 \text{ ft}}$

$$V = \frac{1}{3}Bh$$

$$135 = \frac{1}{3} \cdot 54 \cdot h$$

$$135 = 18h$$

$$18 \overline{) 1350}$$

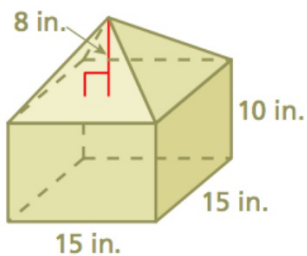
$$\underline{-1260}$$

$$90 - 90 = 0$$

7.5

or  $\boxed{7 \text{ ft bin}}$

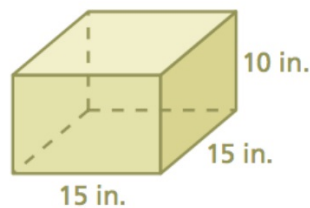
## Example 1 only!

**EXAMPLE 1** Finding the Volume of a Composite Solid

**Find the volume of the composite solid.**

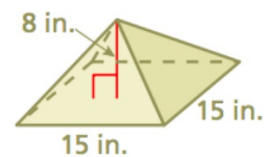
The solid is made up of a square prism and a square pyramid.  
Find each volume.

**Square prism**



$$\begin{aligned} V &= Bh \\ &= 15(15)(10) \\ &= 2250 \end{aligned}$$

**Square pyramid**

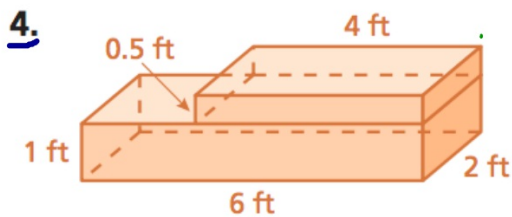


$$\begin{aligned} V &= \frac{1}{3}Bh \\ &= \frac{1}{3}(15)(15)(8) \\ &= 600 \end{aligned}$$

Find the sum:  $2250 + 600 = 2850 \text{ in.}^3$ .

••• The volume of the composite solid is 2850 cubic inches.

Find the volume of the composite solid.



$$V = Bh$$

$$\hookrightarrow \text{rectangle} = b \cdot h$$

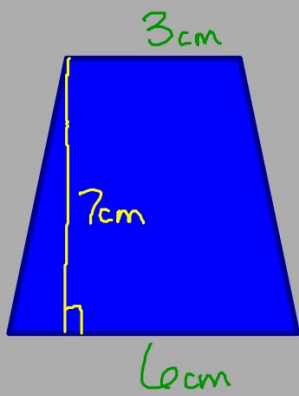
$$V = 6 \cdot 2 \cdot 1 = 12 \text{ ft}^3$$

$$V = Bh$$

$$\hookrightarrow \text{rectangle} = b \cdot h$$

$$V = 4 \cdot 2 \cdot 0.5 = 4 \text{ ft}^3$$

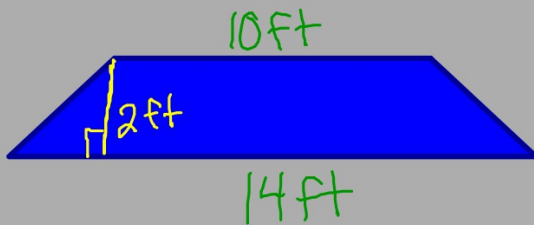
$$12 + 4 = \boxed{16 \text{ ft}^3}$$



$$A = b \cdot h$$

$$\hookrightarrow \frac{6+3}{2} = 4.5$$

$$A = 4.5 \cdot 7 = \boxed{31.5 \text{ cm}^2}$$



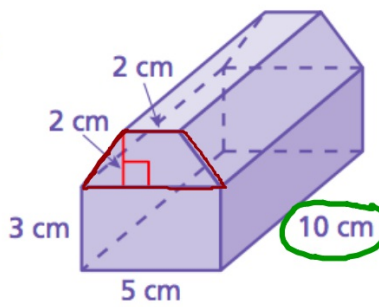
$$10 + 14 = 24 \div 2 = 12$$

$$12 \cdot 2$$

$$A = 24 \text{ ft}^2$$



7.



$$V = Bh$$

↳ rectangle =  $b \cdot h$

$$V = 5 \cdot 10 \cdot 3 = 150 \text{ cm}^3$$

$$V = Bh$$

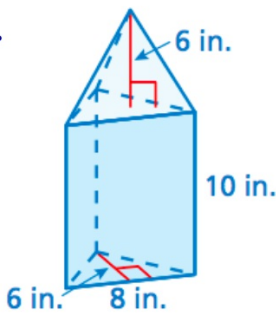
↳ trapezoid =  $\frac{\text{Average of } b \text{ and } B}{2} \cdot h$

$$V = \underline{3.5} \cdot 2 \cdot 10 = 70 \text{ cm}^3$$

$$150 + 70 = \boxed{220 \text{ cm}^3}$$

Find the volume of the composite solid.

8.



$$V = Bh$$

$$\hookrightarrow \Delta = \frac{1}{2} \cdot b \cdot h$$

$$V = \frac{1}{2} \cdot 8 \cdot 6 \cdot 10 = 240 \text{ in}^3$$

$$V = \frac{1}{3} Bh$$

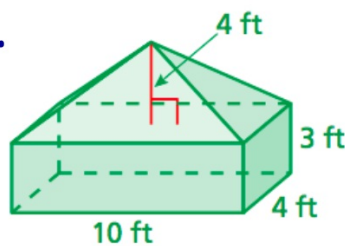
$$\hookrightarrow \Delta = \frac{1}{2} \cdot b \cdot h$$

$$V = \frac{1}{3} \cdot \frac{1}{2} \cdot 8 \cdot 6 \cdot 6$$

$$\frac{1}{3} \cdot 24 \cdot 6 = 48 \text{ in}^3$$

$$240 + 48 = \boxed{288 \text{ in}^3}$$

9.



$$V = Bh$$

$$\hookrightarrow \square = b \cdot h$$

$$V = 10 \cdot 4 \cdot 3 = 120 \text{ ft}^3$$

$$V = \frac{1}{3} Bh$$

$$\hookrightarrow \square = b \cdot h$$

$$V = \frac{1}{3} \cdot 10 \cdot 4 \cdot 4$$

$$V = \frac{1}{3} \cdot 40 \cdot 4$$

$$V = \frac{1}{3} \cdot 160 = \frac{160 \cdot 159}{3} = 53 \frac{1}{3} \text{ or } 53.\bar{3} \text{ ft}^3$$

$$120 + 53 \frac{1}{3} = \boxed{173 \frac{1}{3} \text{ ft}^3}$$

$$120 + 53.\bar{3} = \boxed{173.\bar{3} \text{ ft}^3} \text{ OR}$$

7.5 Exercise #15

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15. Find the amount of glass in the paperweight.

