

Volume: Skill 5 - 23C

Volume of Rectangular Prisms

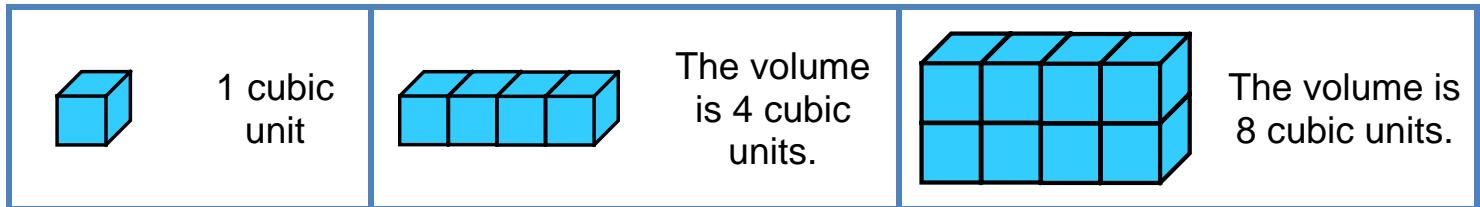
Volume is the amount of space a 3-dimensional figure occupies.

Volume is measured in cubic units.

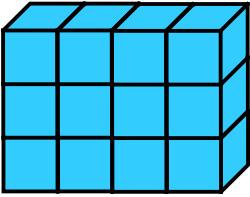
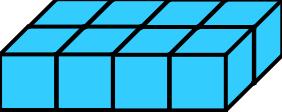
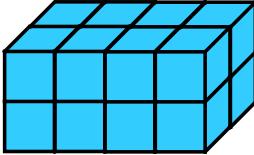
Some examples of cubic units are cubic inches (in.^3) and cubic meters (m^3).

Method Number One: Count the cubic units.

If you have centimeter cubes, you can make the models below.



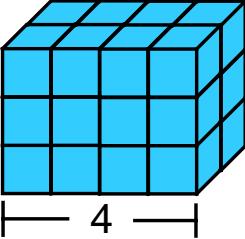
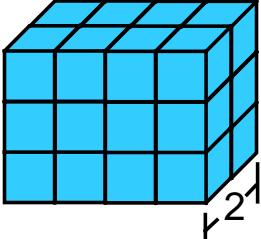
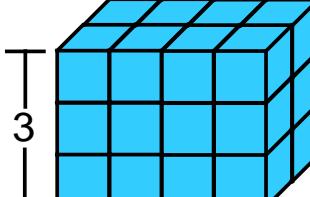
Directions: Find the volume. Fill in the blank line for each.

1.  the volume is _____ cubic units	2.  the volume is _____ cubic units	3.  the volume is _____ cubic units
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Method Number Two: Use a Formula

$$\text{Volume} = \text{length} \times \text{width} \times \text{height}$$

or $V = l \times w \times h$, where l = length, w = width and h = height.

 The length is 4 cubes.	 The width is 2 cubes.	 The height is 3 cubes.	Multiply length times width times height. $4 \times 2 \times 3 = 24$ The volume is 24 cubic units.
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Name _____

Date _____

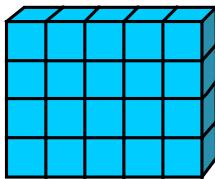
Page 2

Volume: Skill 5 - 23C

Volume

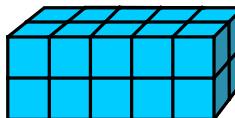
Directions: Find the volume. Count or multiply.

1.



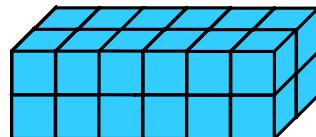
$V = \underline{\hspace{2cm}} \text{ cubic units}$

2.



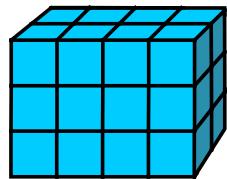
$V = \underline{\hspace{2cm}} \text{ cubic units}$

3.



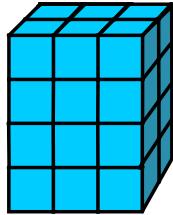
$V = \underline{\hspace{2cm}} \text{ cubic units}$

4.



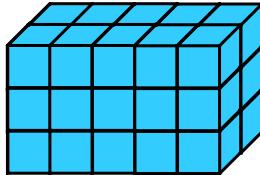
$V = \underline{\hspace{2cm}} \text{ cubic units}$

5.



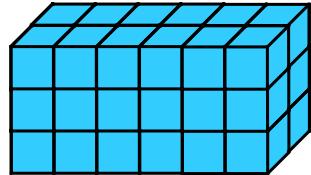
$V = \underline{\hspace{2cm}} \text{ cubic units}$

6.



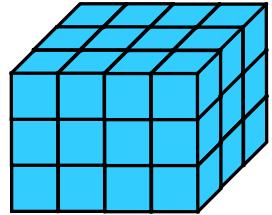
$V = \underline{\hspace{2cm}} \text{ cubic units}$

7.



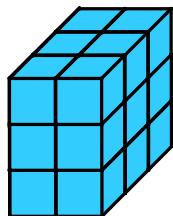
$V = \underline{\hspace{2cm}} \text{ cubic units}$

8.



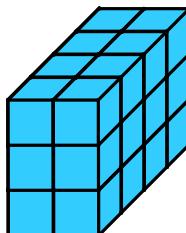
$V = \underline{\hspace{2cm}} \text{ cubic units}$

9.



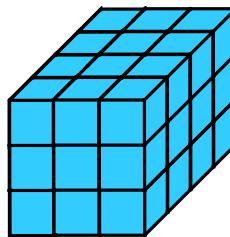
$V = \underline{\hspace{2cm}} \text{ cubic units}$

10.



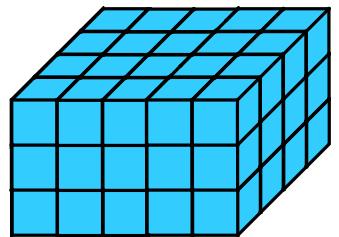
$V = \underline{\hspace{2cm}} \text{ cubic units}$

11.



$V = \underline{\hspace{2cm}} \text{ cubic units}$

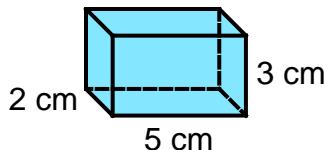
12.



$V = \underline{\hspace{2cm}} \text{ cubic units}$

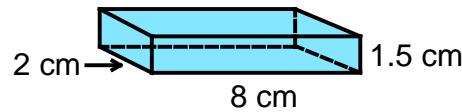
Volume: Skill 5 - 23C**Directions:** Find the volume.

13.



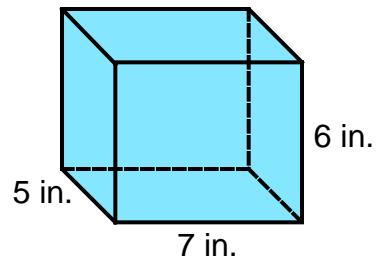
$$\text{Volume} = \underline{\hspace{2cm}} \text{ cubic centimeters or } \underline{\hspace{2cm}} \text{ cm}^3$$

14.



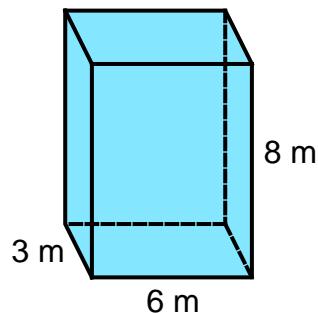
$$\text{Volume} = \underline{\hspace{2cm}} \text{ cm}^3$$

15.



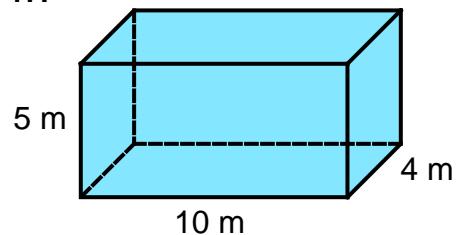
$$\text{Volume} = \underline{\hspace{2cm}} \text{ in.}^3$$

16.



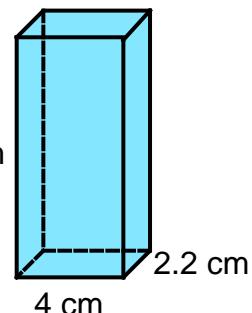
$$\text{Volume} = \underline{\hspace{2cm}} \text{ m}^3$$

17.



$$\text{Volume} = \underline{\hspace{2cm}} \text{ m}^3$$

18.

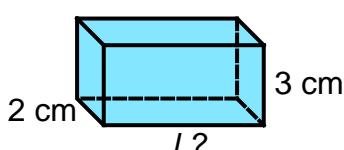


$$\text{Volume} = \underline{\hspace{2cm}} \text{ cm}^3$$

Directions: Find the unknown measure.

19.

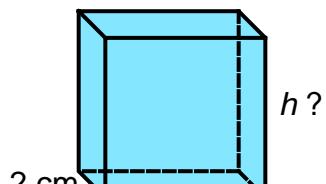
$$V = 36 \text{ cm}^3$$



Find the missing length.
Note: / means length

20.

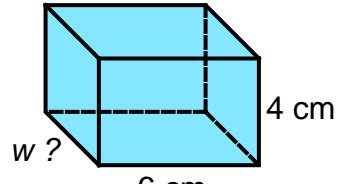
$$V = 72 \text{ cm}^3$$



Find the missing height.

21.

$$V = 96 \text{ cm}^3$$



Find the missing width.

Answer Key Skill 23C Grade 5

Examples pg 1

1. 12 cubic units 2. 8 cubic units 3. 16 cubic units

Questions pg 2 and 3

1. 20 cubic units 2. 20 cubic units 3. 24 cubic units 4. 24 cubic units

5. 24 cubic units 6. 30 cubic units 7. 36 cubic units 8. 36 cubic units

9. 18 cubic units 10. 24 cubic units 11. 36 cubic units 12. 60 cubic units

13. 30 cm^3 14. 24 cm^3 15. 210 in^3 16. 144 m^3

17. 200 m^3 18. 79.2 cm^3 19. $l = 6 \text{ cm}$ 20. $h = 6 \text{ cm}$

21. $w = 4 \text{ cm}$

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