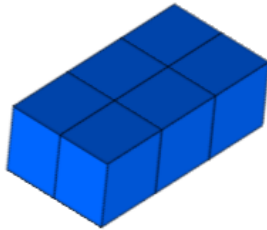


What is Volume?

1a. Complete the stem sentences to show the volume of this cuboid.



The cuboid is made up of _____ cm cubes.
The volume of the cuboid is _____ cm^3 .



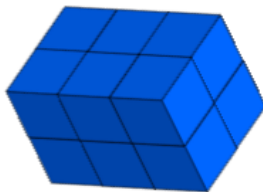
VF

2a. Count the cm cubes to work out the volume of the cuboids.

A.



B.



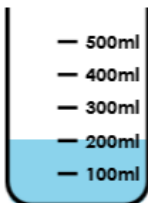
A = _____ cm^3

B = _____ cm^3

VF

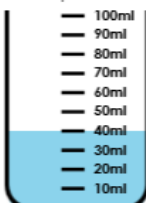
3a. Match the containers to the correct volume.

A.



40 cm^3

B.

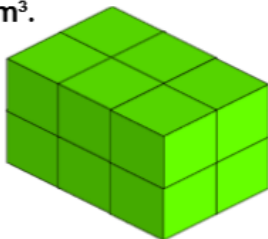


200 cm^3



VF

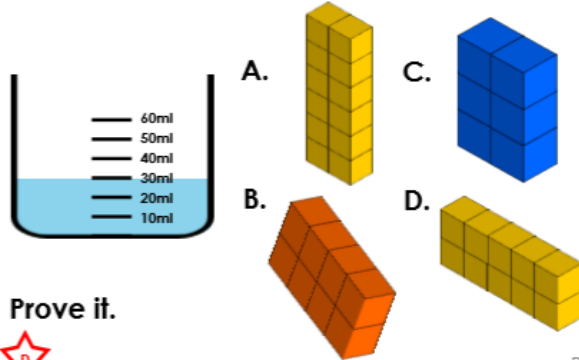
4a. True or false? The volume of this cuboid is 16 cm^3 .



VF

What is Volume?

1b. Circle the cuboids that are equal to the volume of the container.



Prove it.



R

2b. Find the odd one out by matching the shape to the correct volume.

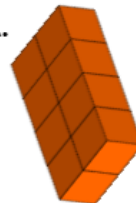
6 cm^3

8 cm^3

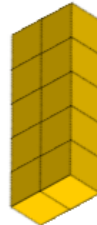
10 cm^3

12 cm^3

A.



B.



C.



Explain your reasoning.



PS

3b. Meera is calculating the volume of the shapes she has made.



My shapes both have 4 cubes on top and 4 cubes on the bottom so they must both have the same volume.



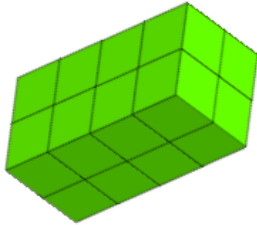
Is Meera correct? Explain your answer.



R

What is Volume?

5a. Complete the stem sentences to show the volume of this cuboid.



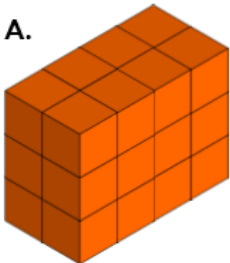
The cuboid is made up of _____ cm cubes.
The volume of the cuboid is _____ cm^3 .



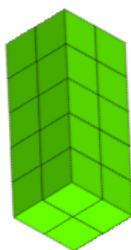
VF

6a. Count the cm cubes to work out the volume of the cuboids.

A.



B.



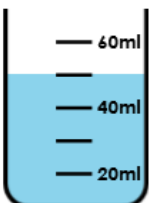
A = _____ cm^3

B = _____ cm^3

VF

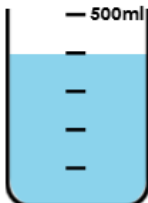
7a. Match the containers to the correct volume.

A.



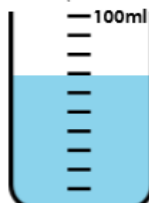
400 cm^3

B.



70 cm^3

C.

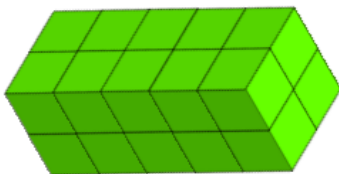


50 cm^3



VF

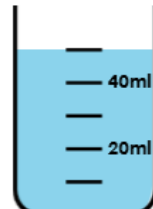
8a. True or false? The volume of this cuboid is 24 cm^3 .



VF

What is Volume?

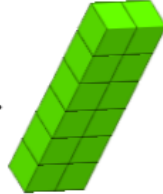
4b. Circle the cuboids that are equal to the volume of the container.



A.



C.



B.



D.



Prove it.

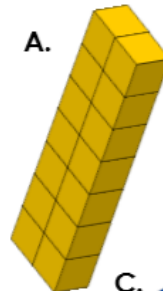


R

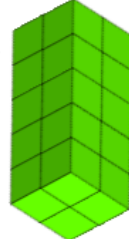
5b. Find the odd one out by matching the shape to the correct volume.

12 cm^3

A.



B.



18 cm^3

20 cm^3

14 cm^3

C.



Explain your reasoning.

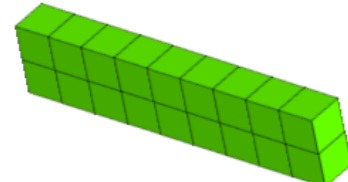


PS

6b. Finley is calculating the volume of the shapes he has made.



My shapes don't look the same so the volumes must be different.



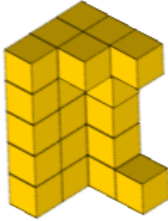
Is Finley correct? Explain your answer.



R

What is Volume?

9a. Complete the stem sentences to show the volume of this cuboid.

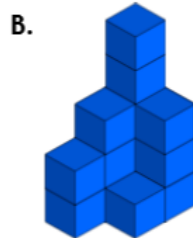
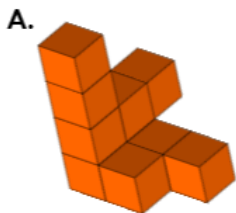


The cuboid is made up of _____ cm cubes.
The volume of the cuboid is _____ cm^3 .



VF

10a. Count the cm cubes to work out the volume of the cuboids.

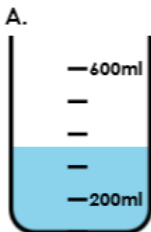


A = _____ cm^3

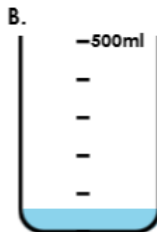
B = _____ cm^3

VF

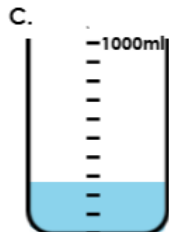
11a. Match the containers to the correct volume.



50 cm^3



250 cm^3

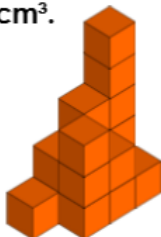


350 cm^3



VF

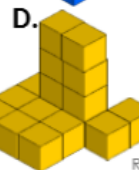
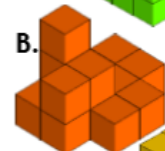
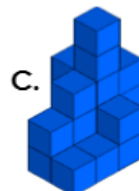
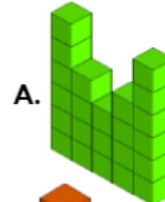
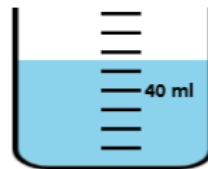
12a. True or false? The volume of this cuboid is 13 cm^3 .



VF

What is Volume?

7b. Circle the cuboids that are equal to the volume of the container.



Prove it



R

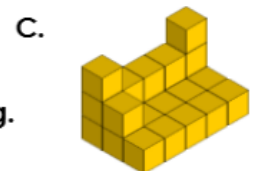
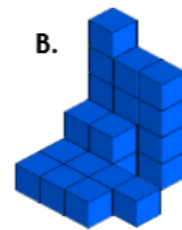
8b. Find the odd one out by matching the shape to the correct volume.

23 cm^3

24 cm^3

20 cm^3

14 cm^3



Explain your reasoning.

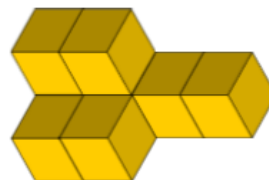


PS

9b. Patrick is calculating the volume of the shapes he has made.



To make my shape in to a cuboid I need to add 6 more cubes.



Is Patrick correct? Explain your answer.



R

Varied Fluency

What is Volume?

Developing

- 1a. The cuboid is made out of 6 cm cubes.
The volume of the cuboid is 6cm³
- 2a. A = 8cm³; B = 12cm³
- 3a. A. 200cm³; B. 40cm³
- 4a. False. It is 12cm³

Expected

- 5a. The cuboid is made out of 16 cm cubes.
The volume of the cube is 16 cm³.
- 6a. A = 24cm³; B = 20cm³.
- 7a. A. 50cm³; B. 400cm³; C. 70cm³.
- 8a. False. It is 20cm³

Greater Depth

- 9a. The cuboid is made out of 23 cm cubes.
The volume of the cube is 23 cm³
- 10a. A = 10cm³; B = 14cm³.
- 11a. A. 350cm³; B. 50cm³; C. 250cm³.
- 12a. False. It is 17cm³

Reasoning and Problem Solving

What is Volume?

Developing

- 1b. A + C + D. A has 12 cubes, C has 8 cubes and D has 10 cubes. $12 + 8 + 10 = 30$.
- 2b. 6cm³ is the odd one out because there is no cuboid that has this number of cubes.
- 3b. Yes. Both cuboids have a volume of 8cm³

Expected

- 4b. B + C + D. B has 18 cubes, C has 12 cubes and D has 20 cubes. $12 + 18 + 20 = 50$.
- 5b. 18cm³ is the odd one out because there is no cuboid that has this number of cubes.
- 6b. No. Both cuboids have a volume of 18cm³

Greater Depth

- 7b. A + B + D. A has 23 cubes, B has 14 cubes and D has 18 cubes. $23 + 14 + 18 = 55$.
- 8b. 20cm³ is the odd one out because there is no cuboid that has this number of cubes.
- 9b. No. The cuboid would be 4 cubes long, 2 cubes wide and 2 cubes high. Its volume would be $4 \times 2 \times 2 = 16\text{cm}^3$