

Homework/Extension

Step 1: What is Volume?

National Curriculum Objectives:

Mathematics Year 5: (5M8) [Estimate volume \[for example, using 1 cm³ blocks to build cuboids \(including cubes\)\] and capacity \[for example, using water\]](#)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Identify whether a statement is true or false. Measuring volume using cm³ up to 12cm³ using cubes or cuboids.

Expected Identify whether a statement is true or false. Measuring volume using cm³ up to 24cm³ using cubes or cuboids.

Greater Depth Identify whether a statement is true or false. Measuring volume using cm³ up to 24cm³ using compound shapes.

Questions 2, 5 and 8 (Varied Fluency)

Developing Circle the odd one out using scales in multiples of 10 or 100, measurements fall on marked increments and volumes up to 12cm³.

Expected Circle the odd one out using scales in multiples of 10 or 100 where not all increments are marked and volumes up to 24cm³.

Greater Depth Circle the odd one out using scales in multiples of 10 or 100 where not all increments are marked and some measurements fall between increments. Volumes up to 24cm³.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Use the clues to identify the possible shape, using cubes and cuboids with a volume of up to 12cm³.

Expected Use the clues to identify the possible shape, using shapes made up of two cuboids with a combined volume of up to 24cm³.

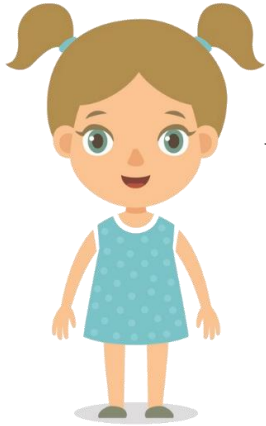
Greater Depth Use the clues to identify the possible shape, using compound shapes with a volume of up to 24cm³.

More [Year 5 Volume](#) resources.

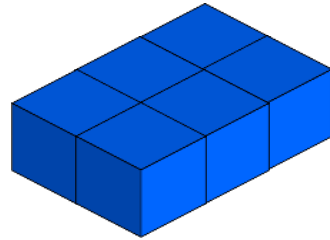
Did you like this resource? Don't forget to [review](#) it on our website.

What is Volume?

1. True or false? Phoebe says,

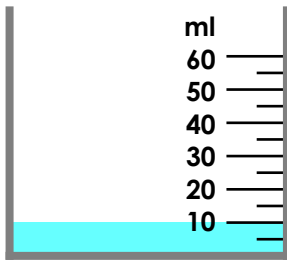


If I add 4 cubes to this shape, it will have a volume of 12cm^3 .

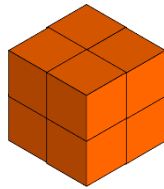


VF
HW/Ext

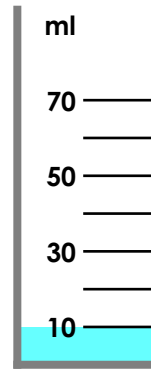
2. Circle the odd one out.



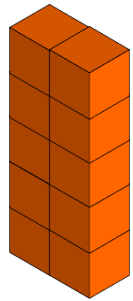
A



B



C



D

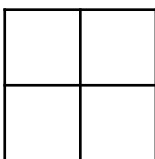


VF
HW/Ext

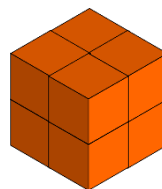
3. Use the clues below to identify which option is the correct shape.

The volume of the shape is between 7cm^3 and 11cm^3 .

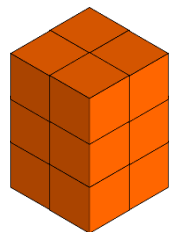
This is the base of the shape.



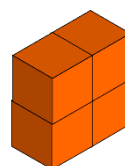
A.



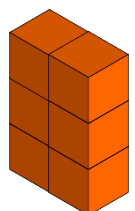
C.



B.



D.



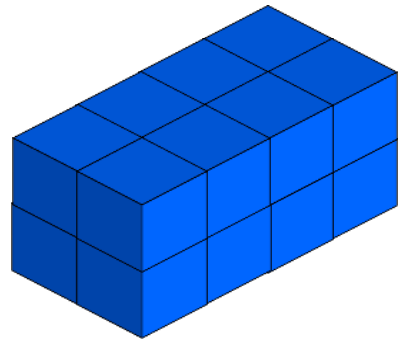
RPS
HW/Ext

What is Volume?

4. True or false? Marcus says,

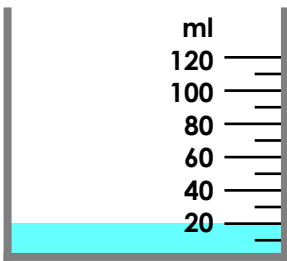


If I add 7 cubes to this shape, it will have a volume of 24cm^3 .

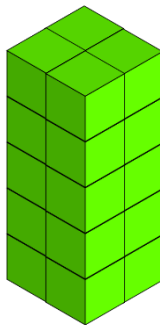


VF
HW/Ext

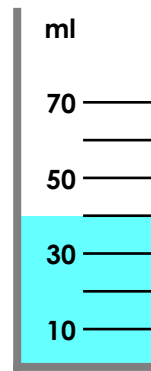
5. Circle the odd one out.



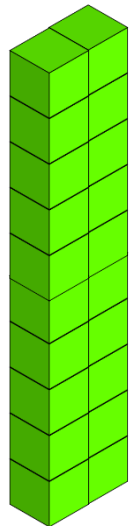
A



B



C



D

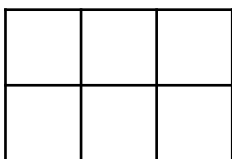


VF
HW/Ext

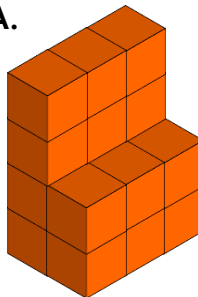
6. Use the clues below to identify which option is the correct shape.

The volume of the shape is between 15cm^3 and 19cm^3 .

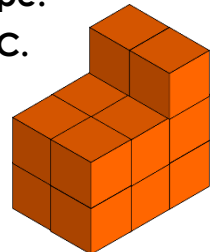
This is the base of the shape.



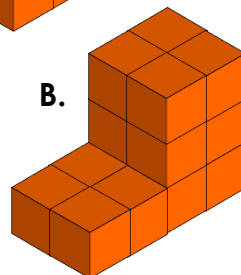
A.



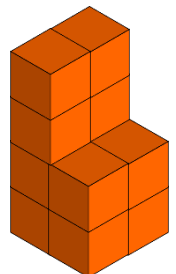
C.



B.



D.



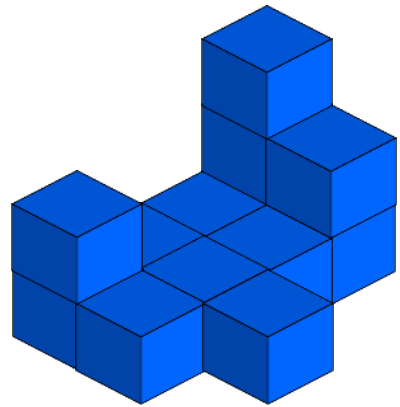
RPS
HW/Ext

What is Volume?

7. True or false? Lawrence says,

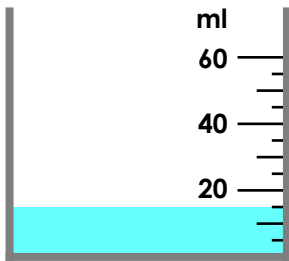


If I add 9 cubes to this shape, it will have a volume of 23cm^3 .

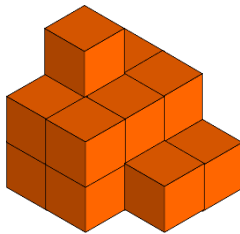


VF
HW/Ext

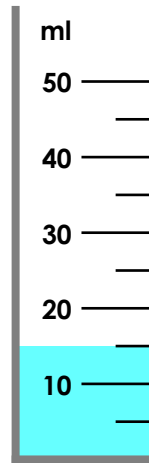
8. Circle the odd one out.



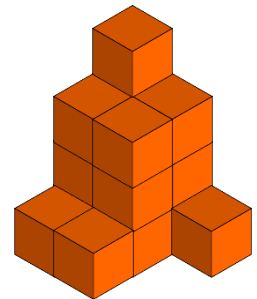
A



B



C



D

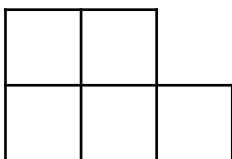


VF
HW/Ext

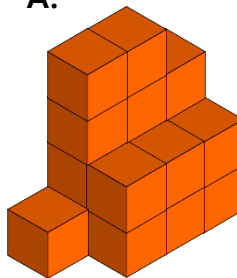
9. Use the clues below to identify which option is the correct shape.

The volume of the shape is between 18cm^3 and 22cm^3 .

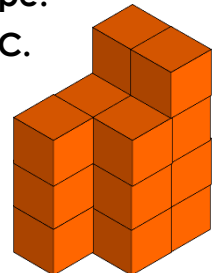
This is the base of the shape.



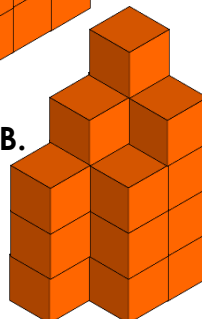
A.



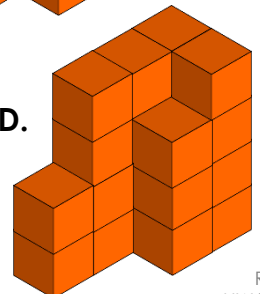
C.



B.



D.



RPS
HW/Ext

Homework/Extension

What is Volume?

Developing

1. **False. It would give a volume of 10cm^3 .**
2. **B**
3. **A**

Expected

4. **False. It would give a volume of 23cm^3 .**
5. **C**
6. **A**

Greater Depth

7. **False. It would give a volume of 22cm^3 .**
8. **D**
9. **B**