

VOLUME - DAY 4

L.O: I can calculate the
volume of a shape

PROBLEM SOLVING

L.O: I can calculate the volume of a shape

Jack makes a shape that has a volume of 15cm^3 .



What does my shape look like?

Find three different shapes with a volume of 15cm^3 .

PROBLEM SOLVING

L.O: I can calculate the volume of a shape

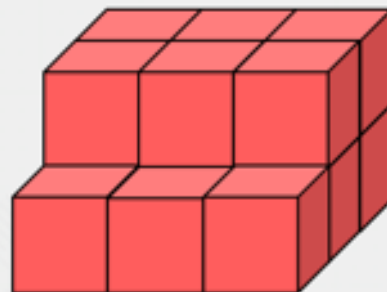
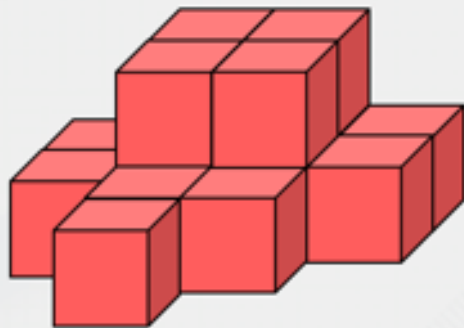
Jack makes a shape that has a volume of 15cm^3 .



What does my shape look like?

Find three different shapes with a volume of 15cm^3 .

Many possible answers, for example:



PROBLEM SOLVING

L.O: I can calculate the volume of a shape

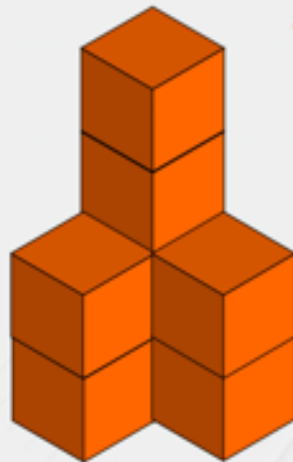
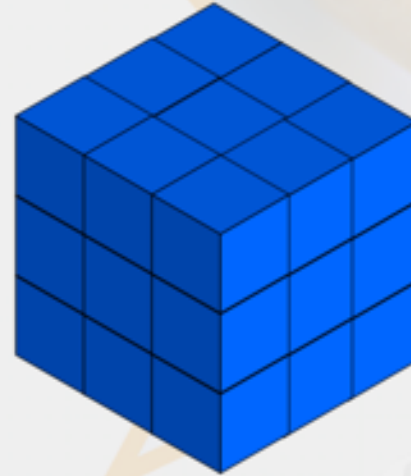
Find the odd one out by matching the shape and the volume.

12cm³

11cm³

27m³

8cm³



PROBLEM SOLVING

L.O: I can calculate the volume of a shape

Find the odd one out by matching the shape and the volume.

The image shows a matching exercise. On the left, there are four boxes containing volume values: 12cm^3 , 11cm^3 (highlighted in red), 27m^3 , and 8cm^3 . On the right, there are three 3D shapes made of small cubes: a $3 \times 3 \times 3$ cube, a shape consisting of a central column of 3 cubes and two side columns of 2 cubes each, and a $2 \times 2 \times 5$ rectangular prism. Lines connect the boxes to the shapes: 12cm^3 connects to the $2 \times 2 \times 5$ prism, 11cm^3 connects to the $3 \times 3 \times 3$ cube, 27m^3 connects to the $2 \times 2 \times 5$ prism, and 8cm^3 connects to the central column shape.

REASONING

L.O: I can calculate the volume of a shape

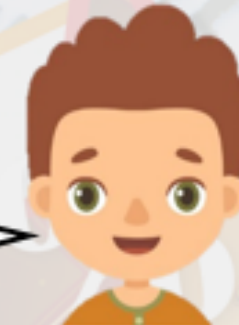
Francesca and Adam have made shapes using 1cm cubes. Which child has the shape with the greatest volume?



Francesca

My shape has a length of 3 cubes, a width of 3 cubes and a height of 2 cubes.

My shape has a length of 2 cubes, a width of 3 cubes and a height of 4 cubes.



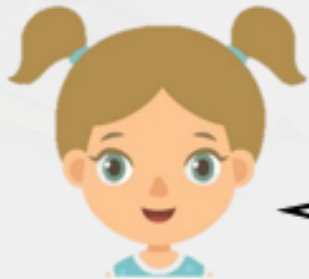
Adam

Explain your answer.

REASONING

L.O: I can calculate the volume of a shape

Francesca and Adam have made shapes using 1cm cubes. Which child has the shape with the greatest volume?



Francesca

My shape has a length of 3 cubes, a width of 3 cubes and a height of 2 cubes.

My shape has a length of 2 cubes, a width of 3 cubes and a height of 4 cubes.



Adam

Explain your answer.

Adam has the shape with the greatest volume because his shape has a volume of 24 cubes, which is more than Francesca's shape of 18 cubes.

L.O: I can calculate the volume of a shape

Your Task...

REASONING AND PROBLEM SOLVING

Choose which of the following tasks you wish to complete.

Each group's work is on the Learning at Home page - Herons Week 4 (Day 4)

