

Friday 26th June 2020

Maths

WALT: Estimate and compare volume using 1cm³ cubes

Arithmetic Practice:

Write numbers in the spaces to correctly complete the calculations below. Look out for any re-grouping that might be required.

$$\begin{array}{r} 90 \\ + \square 3 \\ \hline 163 \end{array}$$

$$\begin{array}{r} 74 \\ + 5\square \\ \hline 132 \end{array}$$

$$\begin{array}{r} 9\square \\ + 36 \\ \hline 133 \end{array}$$

$$\begin{array}{r} 1\square \\ + 78 \\ \hline 96 \end{array}$$

$$\begin{array}{r} 6\square \\ + 93 \\ \hline 161 \end{array}$$

$$\begin{array}{r} \square 8 \\ + 16 \\ \hline 84 \end{array}$$

$$\begin{array}{r} 62 \\ + \square 9 \\ \hline 111 \end{array}$$

$$\begin{array}{r} 3\square \\ + 38 \\ \hline 72 \end{array}$$

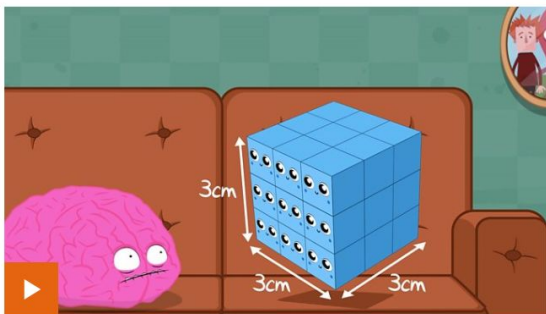
Still unsure about volume?

If you need help watch this video: <https://www.youtube.com/watch?v=LZxXUb9iAZc> as an introduction to volume and this one <https://www.bbc.co.uk/bitesize/topics/zjbg87h/articles/zcrxtyc>

What is volume?

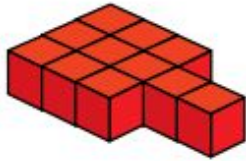
Part of [Maths](#) | [Area and volume](#)

+ Add to My Bitesize

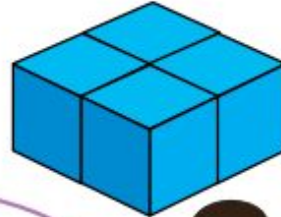


5 Dora and Ron have each made a shape using cubes.

Dora



Ron



My shape has a greater volume because it has more cubes.



Dora

Do you agree with Dora? _____

Talk about it with a partner.

6 Amir, Eva and Alex have made shapes out of centimetre cubes.

a) Amir has made this shape.



What is the volume of Amir's shape?

cm³

b)



I used 24 cubes to make my shape.

What is the volume of Eva's shape?

cm³

c)



The volume of my shape is greater than Amir's but less than Eva's.

What could the volume of Alex's shape be?

cm³

Answers:

$$\begin{array}{r} 90 \\ + 73 \\ \hline 163 \end{array}$$

$$\begin{array}{r} 74 \\ + 58 \\ \hline 132 \end{array}$$

$$\begin{array}{r} 97 \\ + 36 \\ \hline 133 \end{array}$$

$$\begin{array}{r} 18 \\ + 78 \\ \hline 96 \end{array}$$

$$\begin{array}{r} 68 \\ + 93 \\ \hline 161 \end{array}$$

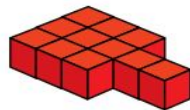
$$\begin{array}{r} 68 \\ + 16 \\ \hline 84 \end{array}$$

$$\begin{array}{r} 62 \\ + 49 \\ \hline 111 \end{array}$$

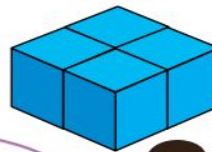
$$\begin{array}{r} 34 \\ + 38 \\ \hline 72 \end{array}$$

5 Dora and Ron have each made a shape using cubes.

Dora



Ron



My shape has a greater volume because it has more cubes.



Dora

Do you agree with Dora? No

Talk about it with a partner.

6 Amir, Eva and Alex have made shapes out of centimetre cubes.

a) Amir has made this shape.



What is the volume of Amir's shape?

18 cm³

b)



I used 24 cubes to make my shape.

What is the volume of Eva's shape?

24 cm³

c)



The volume of my shape is greater than Amir's but less than Eva's.

What could the volume of Alex's shape be?

e.g. 20 cm³