HOME LEARNING

YEAR 6

19/05/2020

Morning Message

Good morning Year 6!

The answer to yesterday's riddle: *Edam*. Today's riddle is courtesy of India! *I have a neck with no head, two arms, but no hands. What am I?*

Today's fact is courtesy of Jack Des Mazery: *Elephants can't jump! Nor can hippos and rhinos but they can have all feet off the ground at the same time when they run.*

Have a great day,

Mr Larke and Ms Yerlisu

Today's Picture

Writing

Today's task is to create an information leaflet about tsunamis. You will need to carry out some research first. Then include information under a few different headings - decide on your own different headings/sections. You might include sections on: how they are formed, a section on statistics (ie. how much water they carry/how high they reach/ how far inland they flood etc), famous tsunamis in history. But it is up to you.

Tips for success:

- include interesting headings for each section

- include facts and statistics

- write in a mainly formal register

Reading

Day 2: Glossary

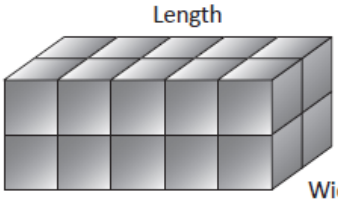
1. Find definitions of words you did not understand
2. Write which type of word it is e.g. verb, noun etc
3. Write word in a new sentence
4. Write in different tenses if it is a verb

Maths

Volume of Cube and Cuboids

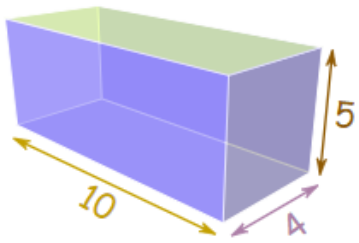
This lesson you will develop the concept of calculating the volume of cuboids and compound objects by using a formula. Compound objects can be broken up into simpler ones.

We can find out the volume of a rectangular prism or cube without counting each block. We just multiply the length by the width by the height.



$L \times W \times H = V$

$5 \times 2 \times 2 = 20\ cm^3$



The amount of 3-dimensional space something takes up.

Imagine how much water could be in it.

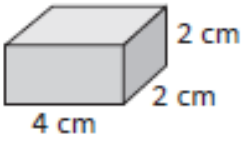
Also called Capacity.

In this example the volume is $10 \times 4 \times 5 = 200\ units^3$

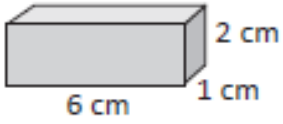
Units of volume include:

- *Metric:* cubic centimetres (cm^3), cubic metres (m^3), litres
- *US Standard:* fluid ounce, cubic inch, cubic foot, pints, gallons

a



b



Volume= L x W x H

a) 4 x 2 x 2= 16cm³ b) 6 x 1 x 2 = 12cm³

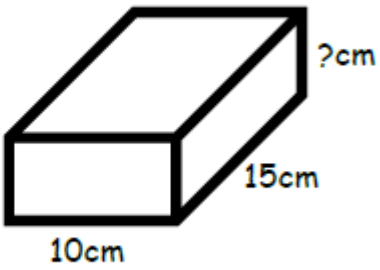
The volume of a cube is $64cm^3$. Find the length one side.

What is cube root of 64? $\sqrt[3]{}$

V= L x W x H cube has 3 equal sides 4 x 4 x 4 =64 cm³ so it is 4 cm

This cuboid has a **Volume of 600** mm^3.

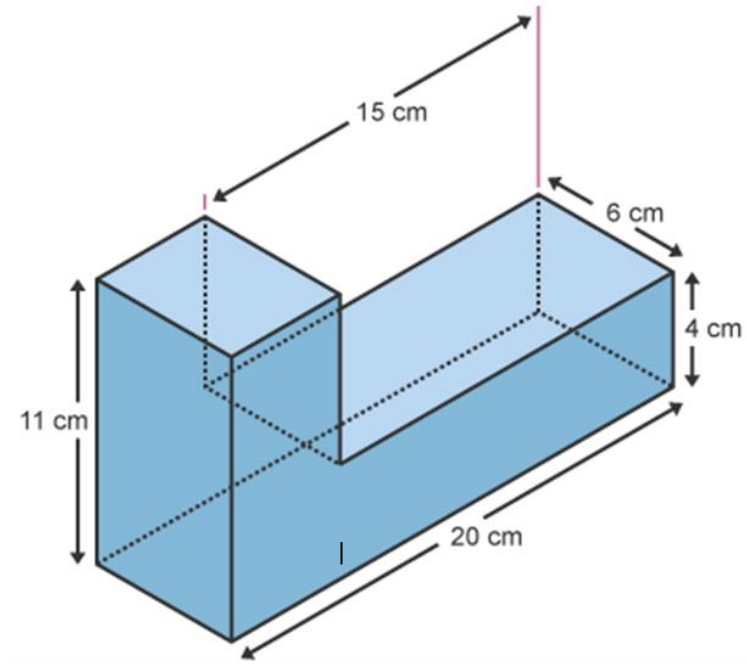
Work out the surface area of the Cuboid.



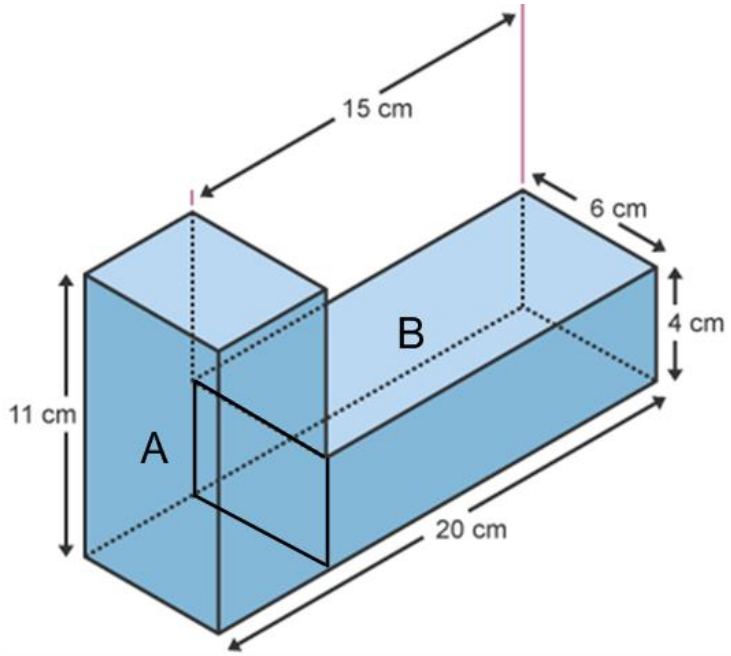
V = L x W x H Two sides 10 x 15 = 150cm³ 600÷150 = 4 cm

Compound Volumes

Break this into 2 cuboids.



When calculating the volume a composite solid, split the shape up into sections and calculate each element separately.



Volume A = 11 x 6 x 5 = 330 cm^3

Volume B = 15 x 4 x 6 = 360 cm^3

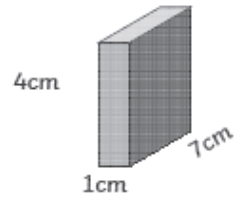
Total Volume of compound shape = 330 + 360 = 690 cm^3

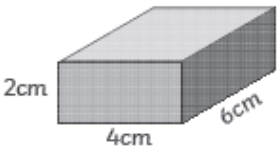
Remember you can break up this 3D shape differently. You need to find 3 dimensions for each shape to be able calculate the volume.

Task

Compare the volume of the following cuboids.

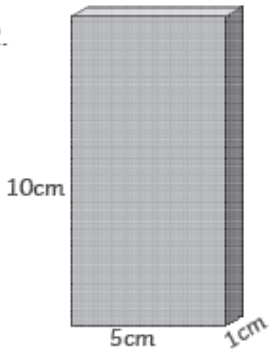
1.

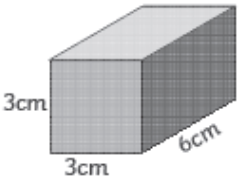




Volume = ☐ Volume = ☐

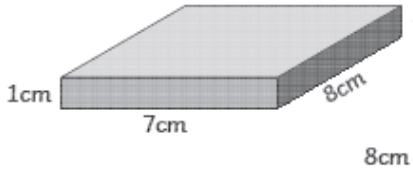
2.

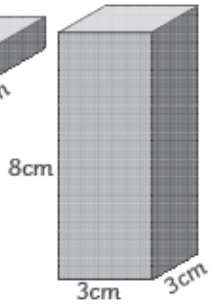




Volume = ☐ Volume = ☐

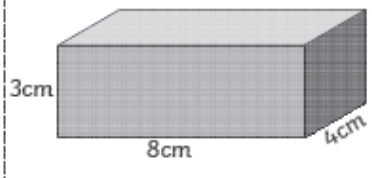
3.

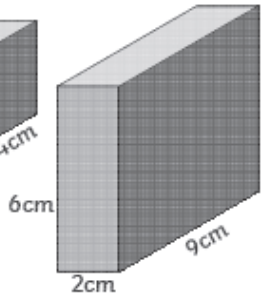




Volume = ☐ Volume = ☐

4.





Volume = ☐ Volume = ☐

1) Miss Suleiman just bought a new fridge with a base of 30 cm, a breadth of 45cm and a height 120 cm. What is the volume of the fridge?

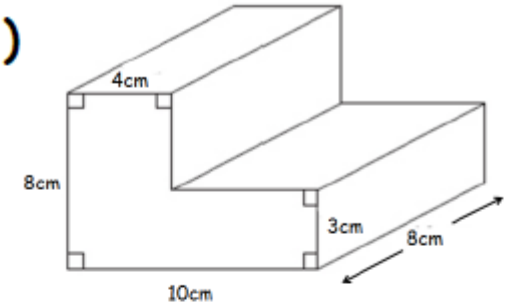
2) A cuboid has a base length of 30m a height of 16m and a breadth of 10m. What is the volume of the cuboid?

3) A cube shaped box has a side length of 3mm. What is the volume of the box?

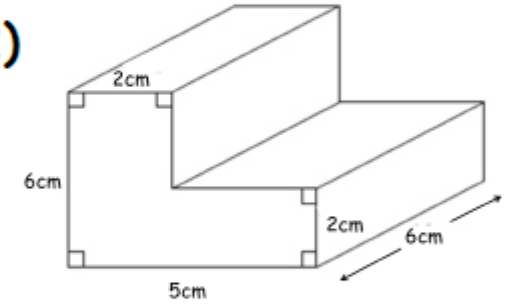
4) A rubix cube has a side length of 10cm. What its volume?

Work out the volume of the following shapes:

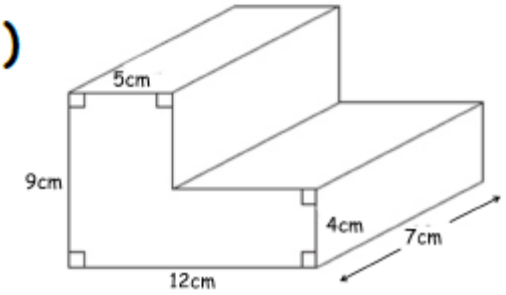
1)



2)

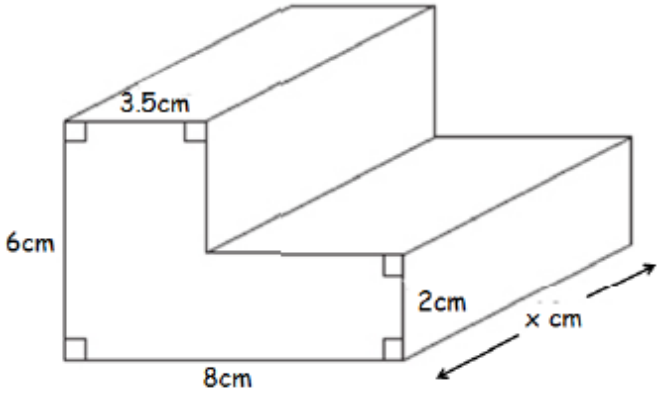


3)



Extension

The volume of the shape below is 195 cm^3.
Can you find the value of x?



Check Mathletics

Weekly Spellings

You should continue to revise words/spelling patterns that you have identified as necessary. We have provided another 15 tricky words if you need them. Remember, it is more important that you revise all the spelling patterns from the KS2 National Currciulum first.

1. bacteria
2. cafeteria
3. criteria
4. advantageous
5. flamboyant
6. campaign
7. liaison
8. eerie
9. questionnaire
10. courtesy
11. accessible
12. conceit
13. pneumatic
14. obey
15. quarrel

Foundation Topic Work (for the week)

Ms. Greenaway has kindly provided a follow up task for the evolution module that she taught earlier in the year. You will find a PDF of the task on the school website next to home learning. There are a few slides reminding us what evolution is and some questions to answer in your home learning book.

The most exciting part of the task is the extension and the chance to make models of human and chimpanzee skulls!

Diary

Write a diary of what work and activities you did today. Remember to include your thoughts, feelings and opinions.