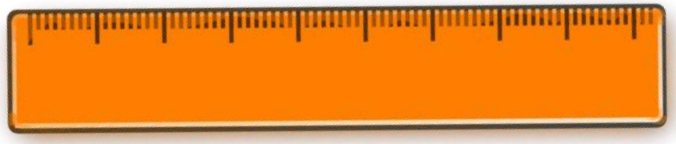
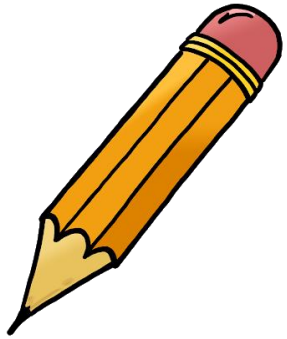
Year 6

Thursday 2nd July 2020

Maths

LO: to calculate the volume of a keyboard





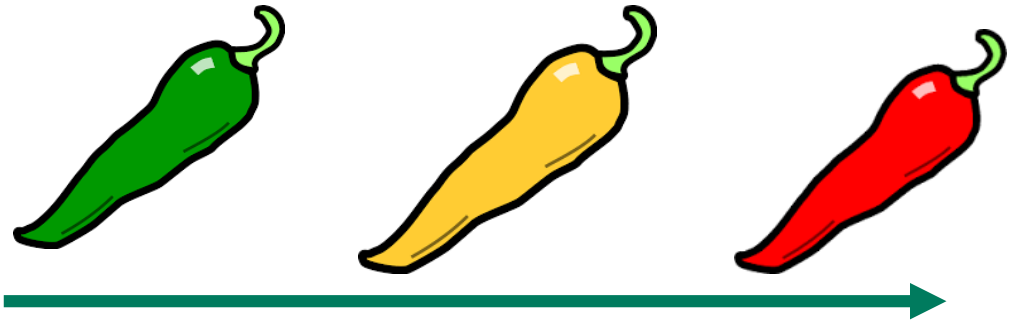
The video of this lesson is available here – Summer Term – Week 9 - lesson 4

This link works on the printable version and is available above the PowerPoint.

You will need to watch this video to learn the skills you need in this lesson.

The independent work continues on the next two slides. There are 7 questions and 1 extension.

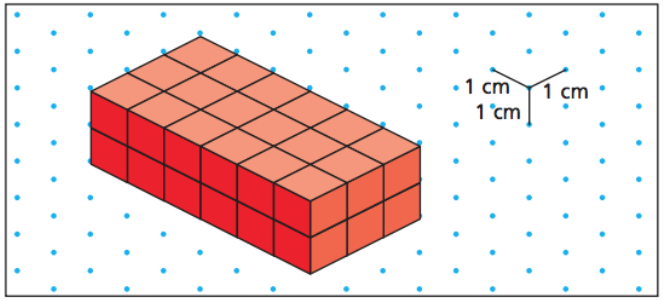
(Espanol - siete preguntas y una extensión)



The chili suggests a good starting point depending on how confident you are feeling.
If you have time you can complete all the independent work!

Volume of a cuboid

1 Here is a cuboid made up of cubes.

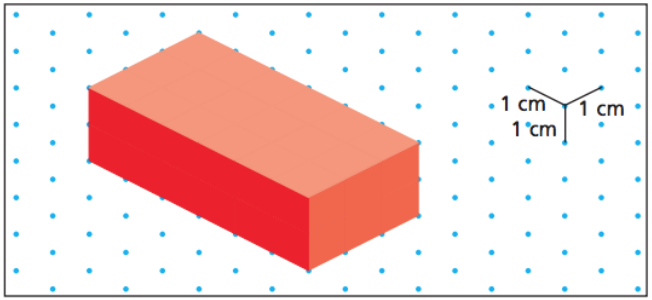


a) What is the volume of the cuboid?

volume = ☐ cm^3

b) Explain your method for finding the volume.

c) What is the volume of this cuboid?



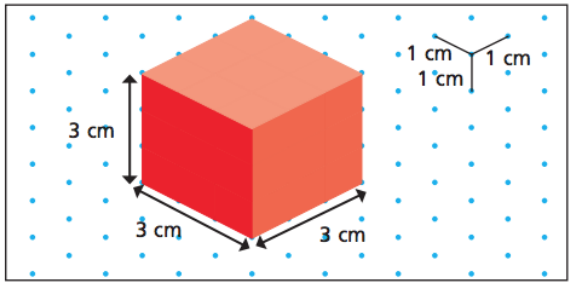
volume = ☐ cm^3

d) What is the same and what is different about the cuboids?

2 Find the volume of the cuboids.

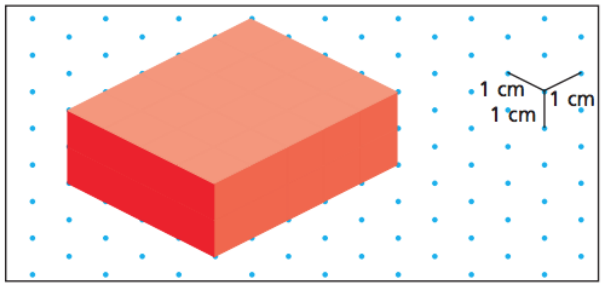
You can make them with cubes if it helps.

a)



volume = ☐ cm^3

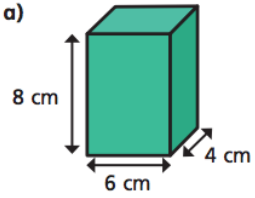
b)



volume = ☐ cm^3

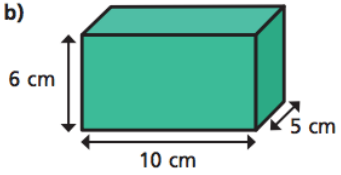
3 Calculate the volumes of the cuboids.

a)



volume = ☐ cm^3

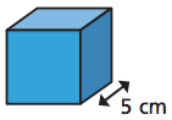
b)



volume = ☐ cm^3

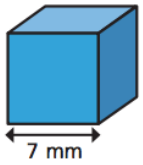
4 Calculate the volumes of the cubes.

a)



volume = ☐ cm^3

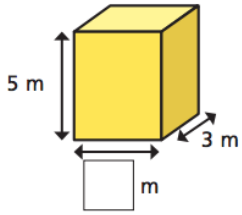
b)



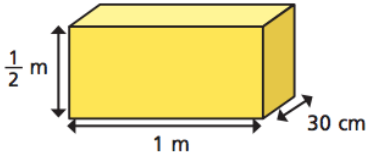
volume = ☐ mm^3

5 The volume of the cuboid is 60 m^3

Find the missing length.

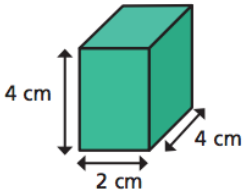


6 Calculate the volume of the cuboid.

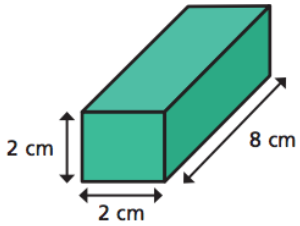


volume = ☐ cm^3

7 **a)** Calculate the volumes of the two cuboids.



☐ cm^3

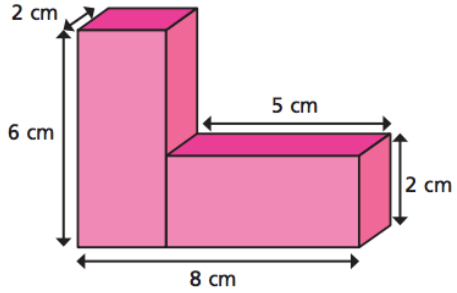


☐ cm^3

What do you notice?

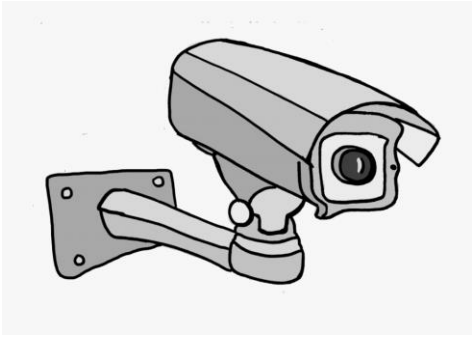
b) Draw two different cuboids that have a volume of 24 cm^3

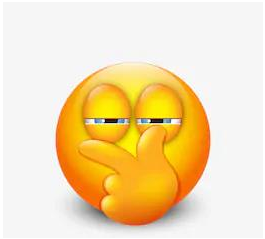
Ext: Calculate the total volume of the shape.



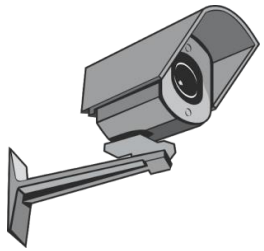
volume = ☐ cm^3

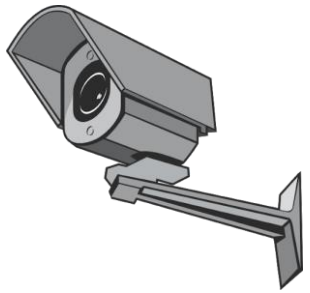
Was there another method you could have used?





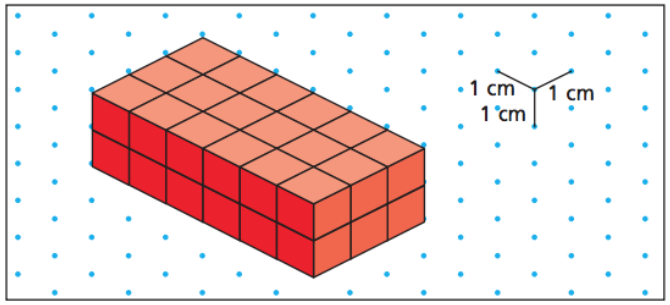
The next two slides contain the answers should you wish to check you work and reflect on what you understand.





Volume of a cuboid

1 Here is a cuboid made up of cubes.

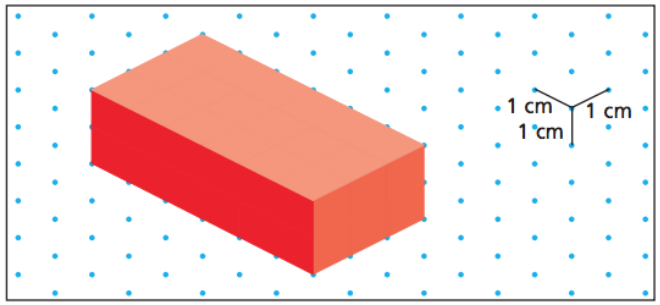


a) What is the volume of the cuboid?

volume = 36 cm³

b) Explain your method for finding the volume.

c) What is the volume of this cuboid?



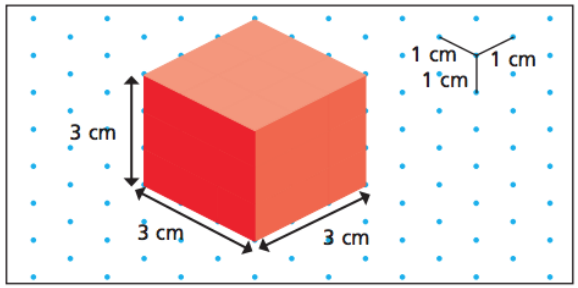
volume = 36 cm³

d) What is the same and what is different about the cuboids?

2 Find the volume of the cuboids.

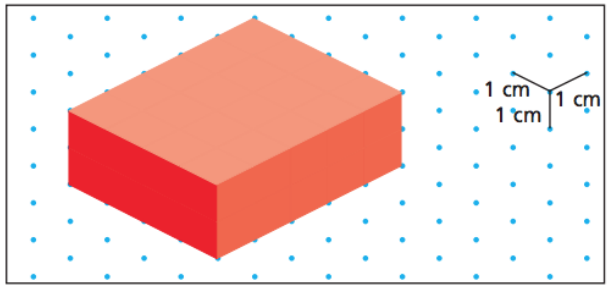
You can make them with cubes if it helps.

a)



volume = 27 cm³

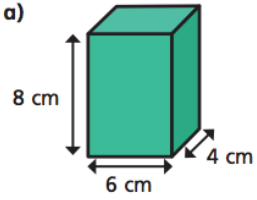
b)



volume = 40 cm³

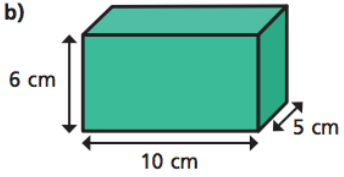
3 Calculate the volumes of the cuboids.

a)



volume = 192 cm³

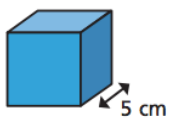
b)



volume = 300 cm³

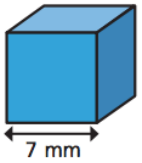
4 Calculate the volumes of the cubes.

a)



volume = 125 cm³

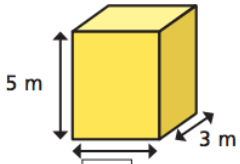
b)



volume = 343 mm³

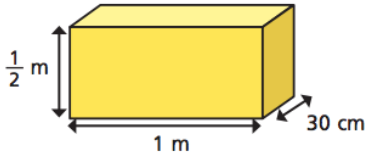
5 The volume of the cuboid is 60 m³

Find the missing length.



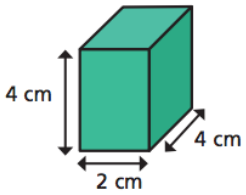
4 m

6 Calculate the volume of the cuboid.

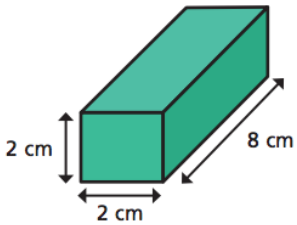


volume = 150,000 cm³

7 a) Calculate the volumes of the two cuboids.



32 cm³

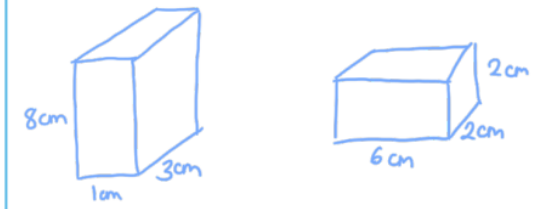


32 cm³

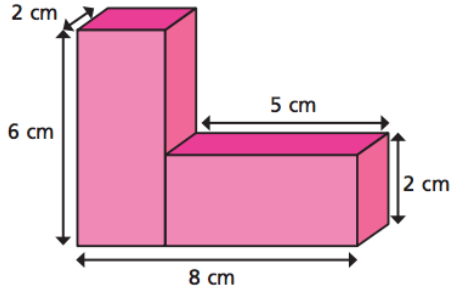
What do you notice?

b) Draw two different cuboids that have a volume of 24 cm³

e.g.



Ext: Calculate the total volume of the shape.



volume = 56 cm³

Was there another method you could have used?