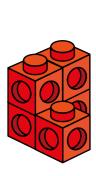
What is volume?

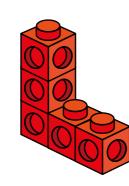


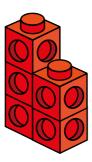
Dexter has made some 3D shapes using cubes.





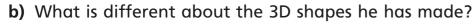






a) What is the same about the 3D shapes he has made?

Compare answers with a partner.



Compare answers with a partner.

c) What is the volume of each of Dexter's 3D shapes?

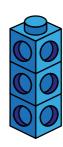






b)

c)



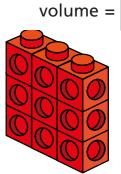


3 cubes volume =



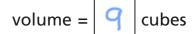
e)

d)



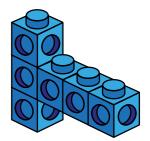
volume = cubes

f)



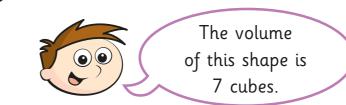
cubes

volume = cubes



cubes





Do you agree with Teddy? No Explain your answer.



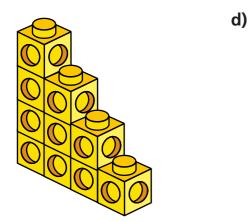


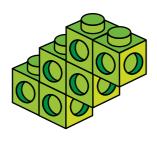


Each cube has a volume of 1 cm³

What is the volume of each shape?

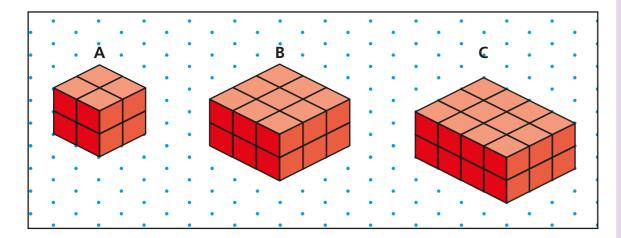
a)





volume =
$$\frac{6}{100}$$
 cm³

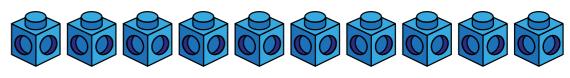
Three cuboids are drawn on isometric paper.



- a) How many cubes are needed to make each cuboid?
 - cubes
- cubes
- cubes
- b) If each cube has a side length of 1 cm, what is the volume of each cuboid?

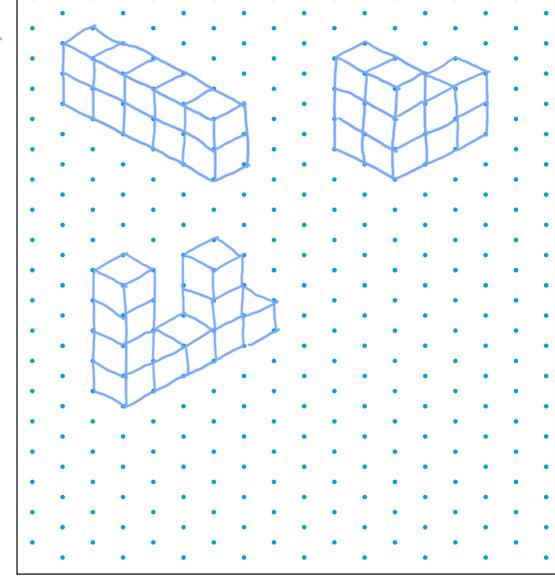
- 24 cm³

Ron is making 3D shapes using 10 cubes.



- a) Use cubes to investigate the different shapes Ron can make.
- **b)** Draw three of your shapes on the isometric paper.

Various answers e.g.



- c) What is the volume of each of your shapes?
- cubes
- d) Compare answers with a partner. What is the same and what is different?





