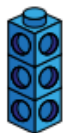


Fluency

1. What is the volume of each 3D shape?

a)



volume = cubes

b)



volume = cubes

c)



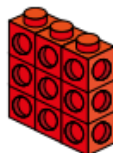
volume = cubes

d)



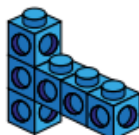
volume = cubes

e)



volume = cubes

f)



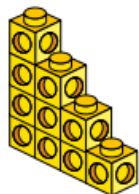
volume = cubes

2.

Each cube has a volume of 1 cm³

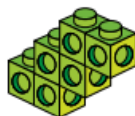
What is the volume of each shape?

a)



volume = cm³

b)



volume = cm³

Problem Solving

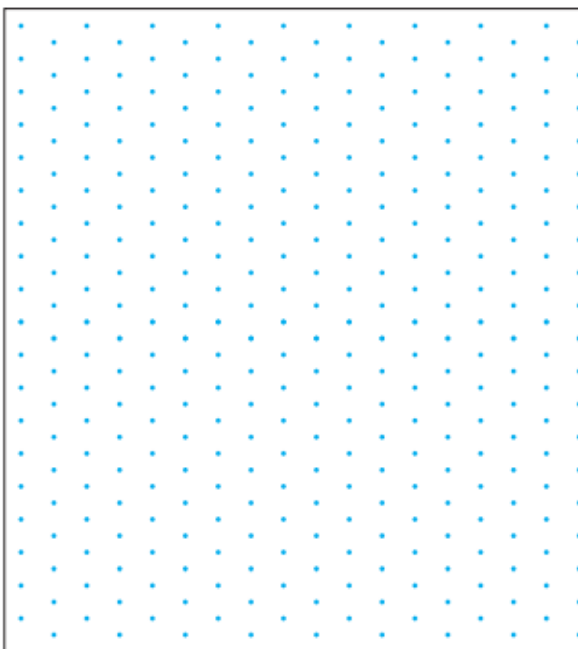
1.

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.



What is the volume of each of your shapes? cubes

Reasoning

1.



The volume of this shape is 7 cubes.



Do you agree with Teddy? _____

Explain your answer.

2.

My shape is made up of 10 centimetre cubes.

The height and length are the same size.

What could my shape look like?

Mastery Challenge

Which shape described here
has the greatest volume?



Shape A is 8 cubes long, 3 cubes wide
and 2 cubes tall.

Shape B is 9 cubes long, 2 cubes tall and 2 cubes wide.

Shape C is 4 cubes wide, 2 cubes long and 6 cubes tall.

Prove it.