

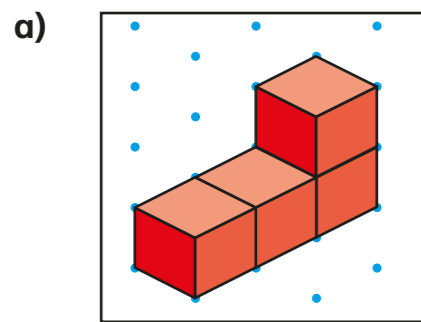
Volume – counting cubes



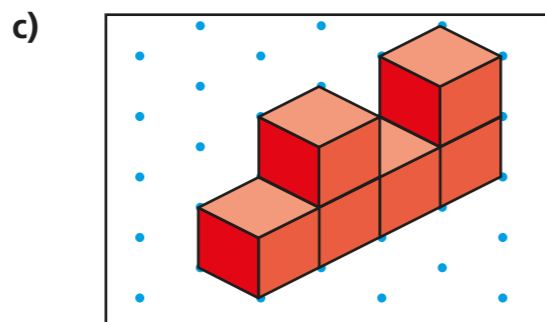
1 Use seven cubes to make three different shapes.
Each shape must use all the cubes.



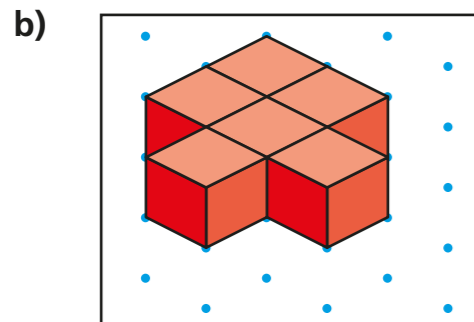
2 How many cubes are needed to make each shape?
There are no hidden cubes.



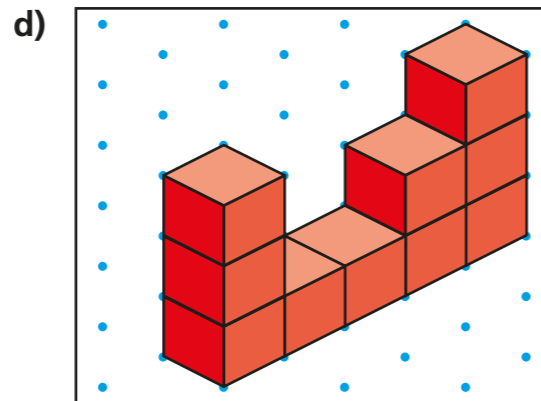
cubes



cubes

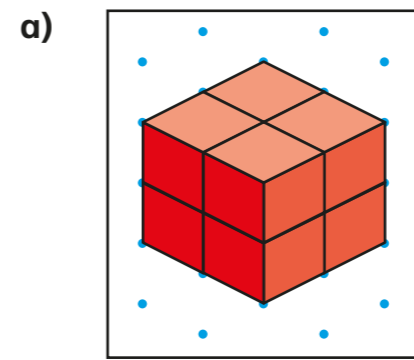


cubes

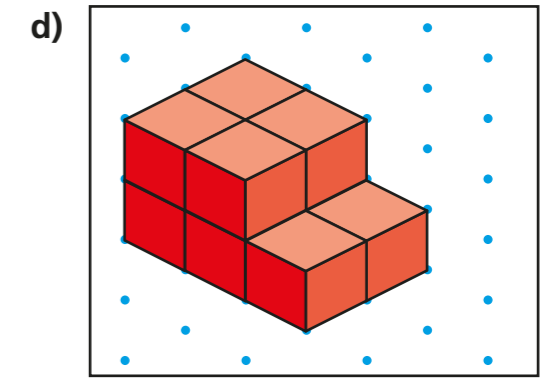


cubes

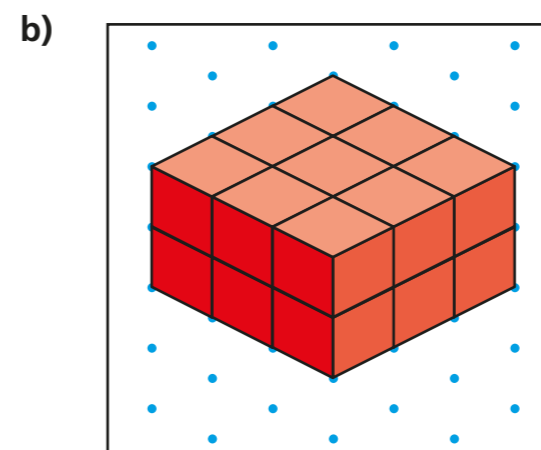
3 How many cubes are needed to make the following shapes?



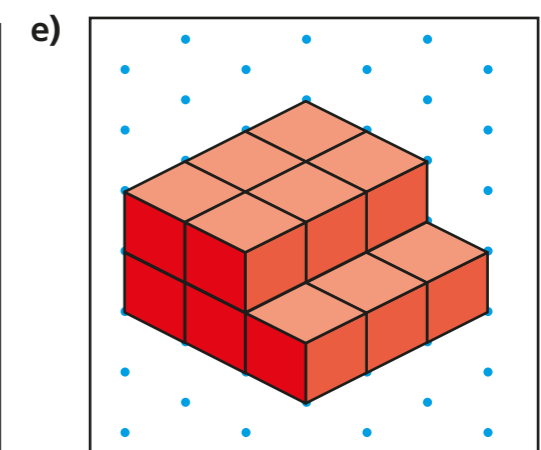
cubes



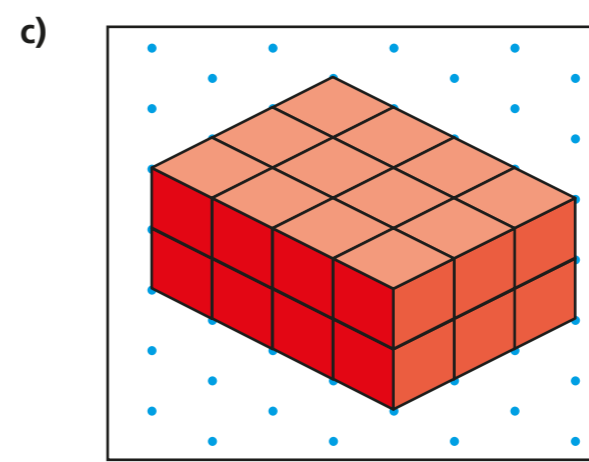
cubes



cubes



cubes

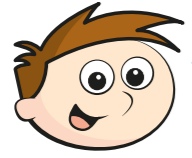


cubes

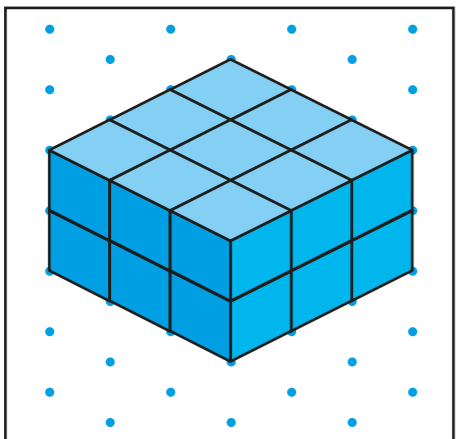
Discuss the method you used with a partner.



4



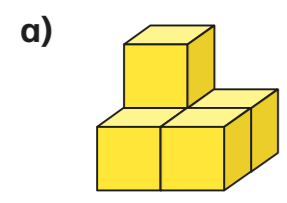
There are 14 cubes in the cuboid.



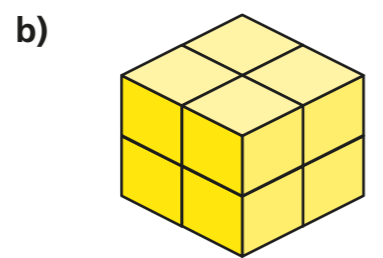
Explain Teddy's mistake.

5

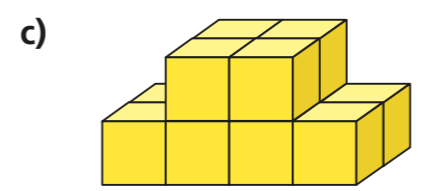
If one cube is worth 1 cm³, what are the volumes of the shapes?



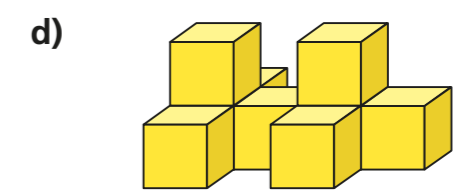
volume = cm³



volume = cm³



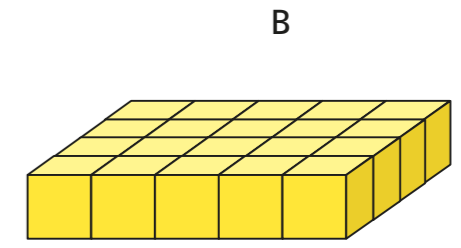
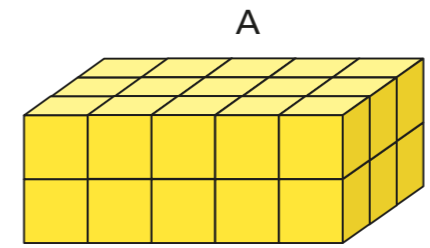
volume = cm³



volume = cm³

6

Here are two cuboids made of 1 cm³ cubes.



Which shape has the greater volume? _____

Show all your working to prove your answer.

7

A shape has a volume of 24 cm³

Make two possible shapes from cubes and then draw them.

