

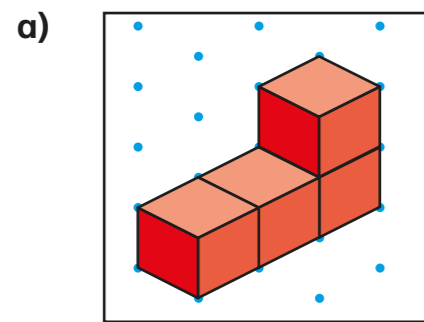
Volume – counting cubes



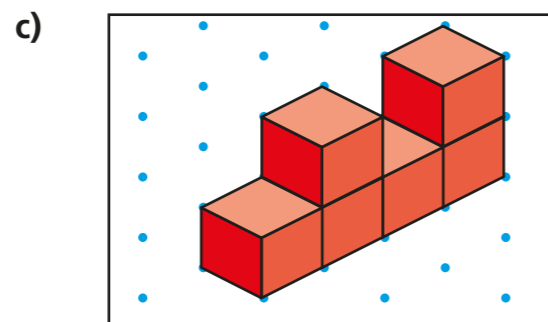
1 Use seven cubes to make three different shapes.
Each shape must use all the cubes.



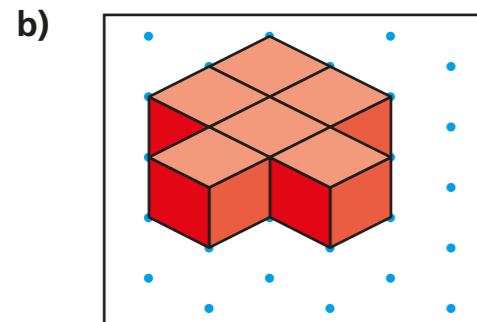
2 How many cubes are needed to make each shape?
There are no hidden cubes.



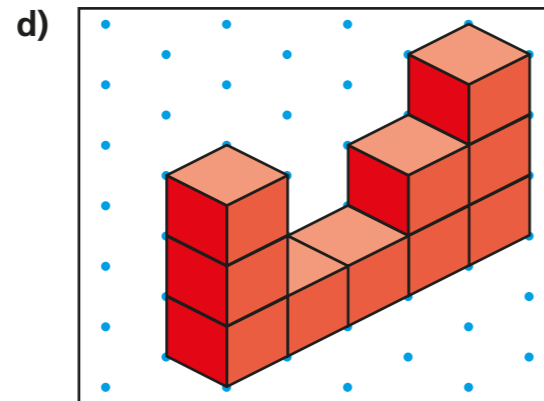
4 cubes



6 cubes

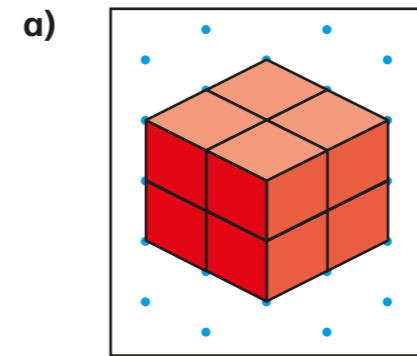


6 cubes

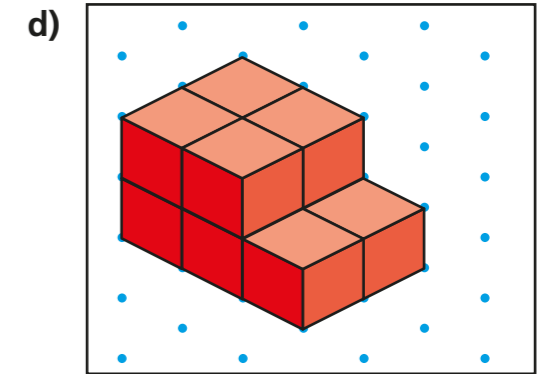


10 cubes

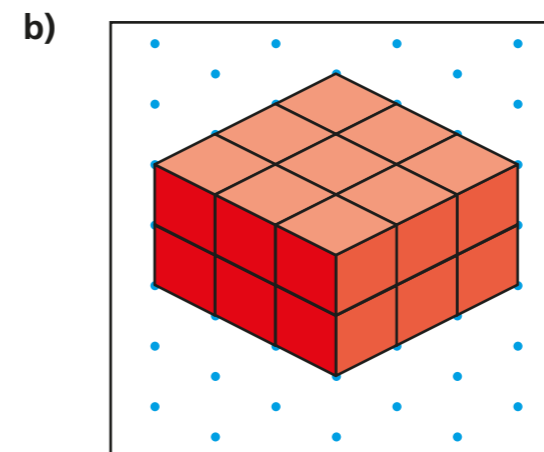
3 How many cubes are needed to make the following shapes?



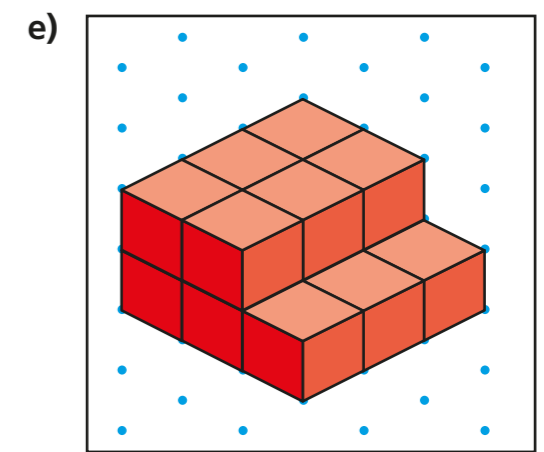
8 cubes



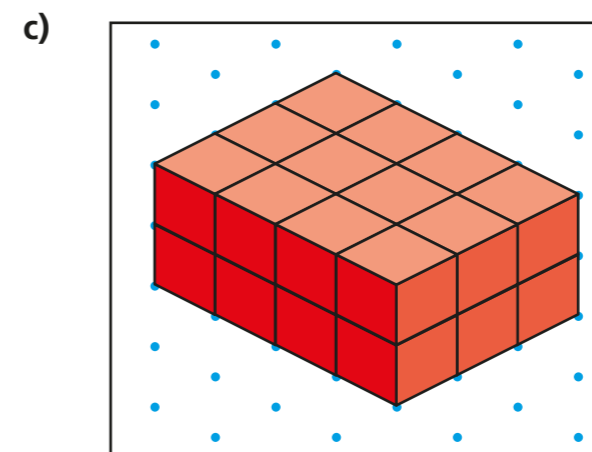
10 cubes



18 cubes



15 cubes

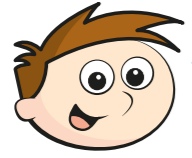


27 cubes

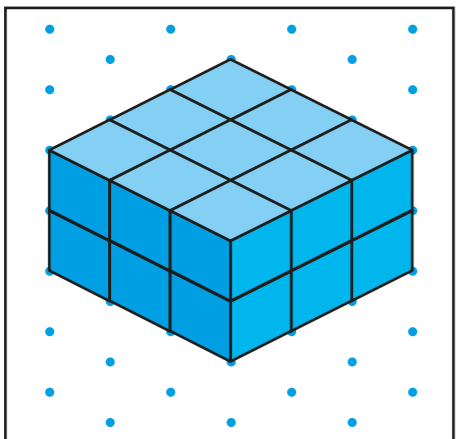
Discuss the method you used with a partner.



4



There are 14 cubes in the cuboid.

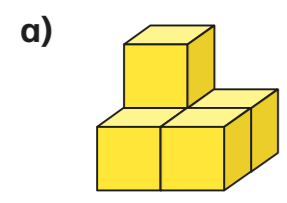


Explain Teddy's mistake.

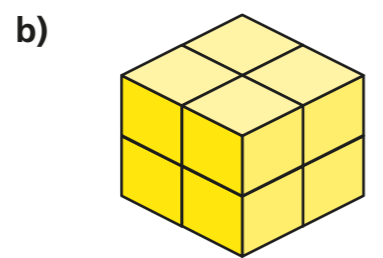
He hasn't included the ones at the back that aren't visible from this angle.

5

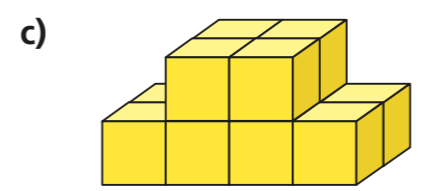
If one cube is worth 1 cm³, what are the volumes of the shapes?



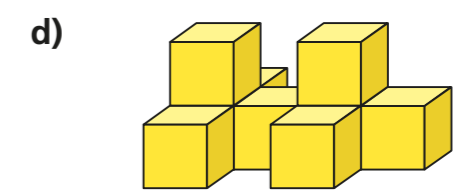
volume = 5 cm³



volume = 8 cm³



volume = 12 cm³

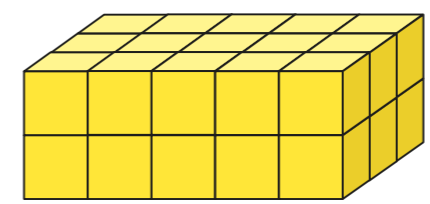


volume = 8 cm³

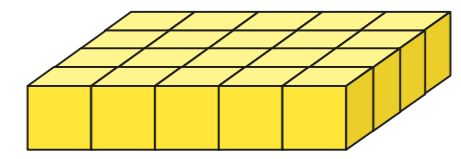
6

Here are two cuboids made of 1 cm³ cubes.

A



B



Which shape has the greater volume? A

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.

e.g.

