

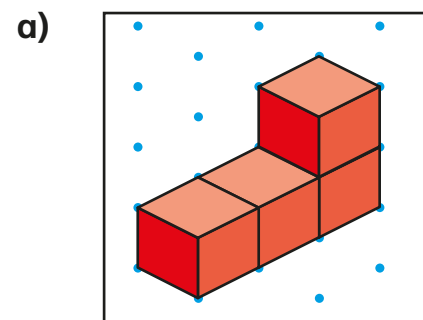
Volume – counting cubes



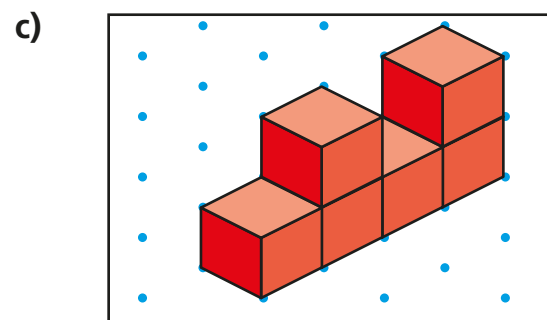
- 1 Use seven cubes to make three different shapes.
Each shape must use all the cubes.



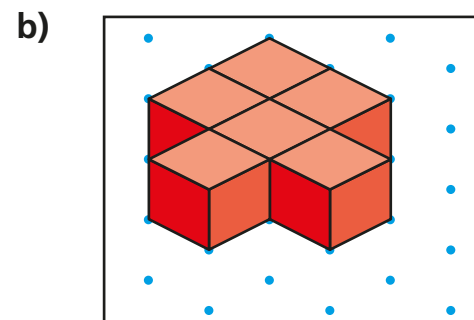
- 2 How many cubes are needed to make each shape?
There are no hidden cubes.



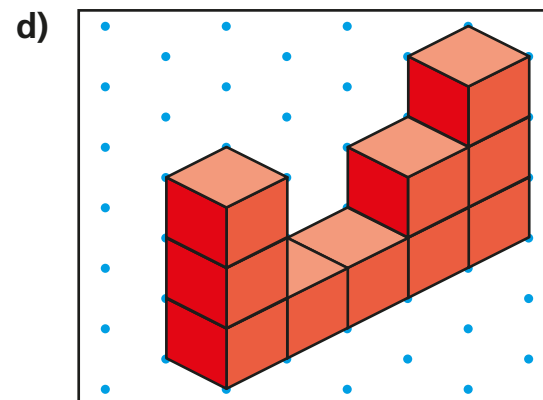
4 cubes



6 cubes

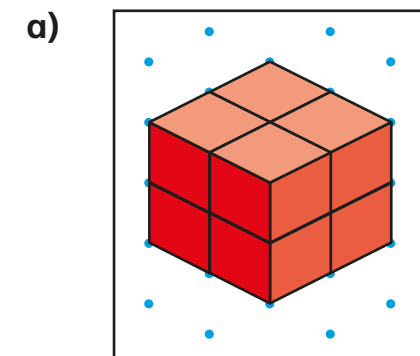


6 cubes

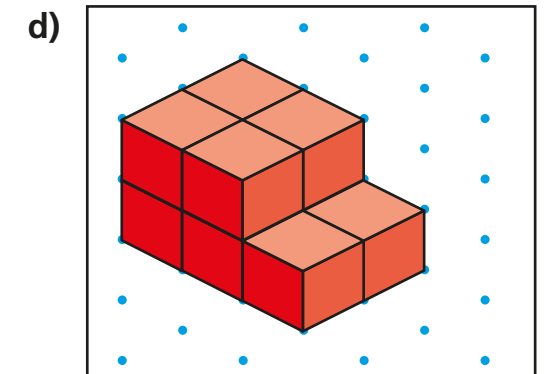


10 cubes

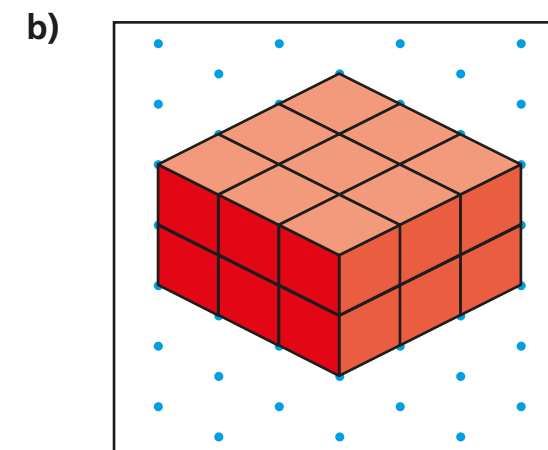
- 3 How many cubes are needed to make the following shapes?



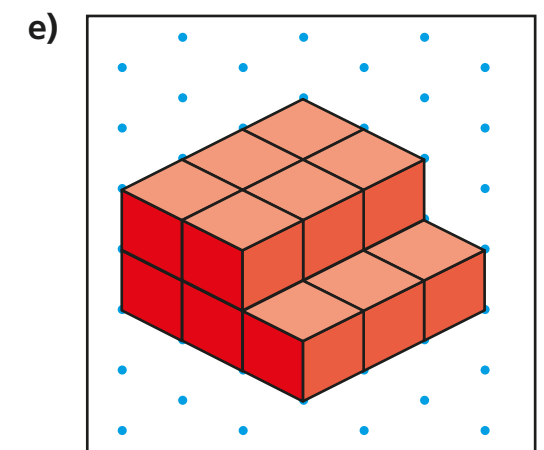
8 cubes



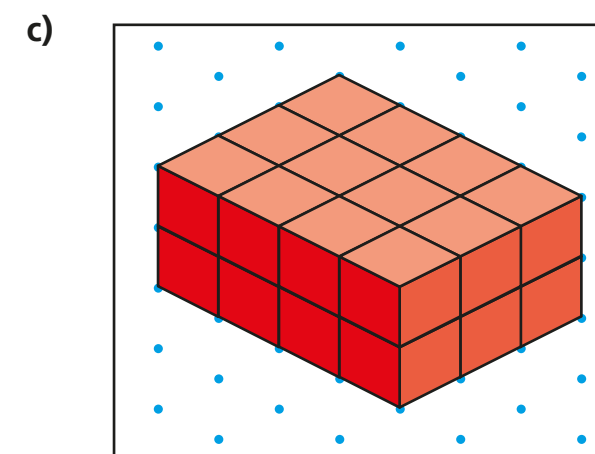
10 cubes



18 cubes



15 cubes

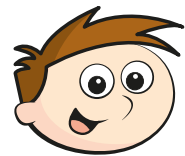


24 cubes

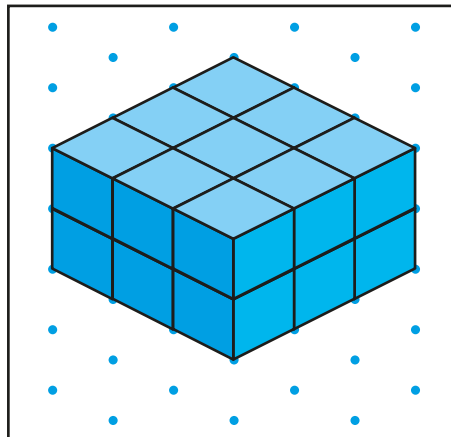
Discuss the method you used with a partner.



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There are 14 cubes in the cuboid.



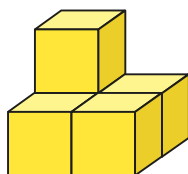
Explain Teddy's mistake.

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

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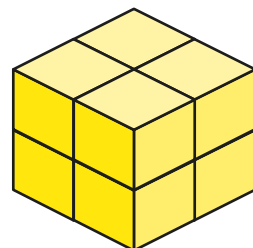
If one cube is worth 1 cm^3 , what are the volumes of the shapes?

a)



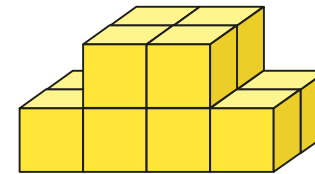
volume = 5 cm^3

b)



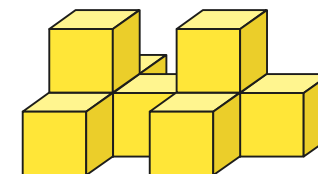
volume = 8 cm^3

c)



volume = 12 cm^3

d)

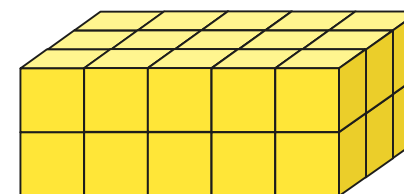


volume = 8 cm^3

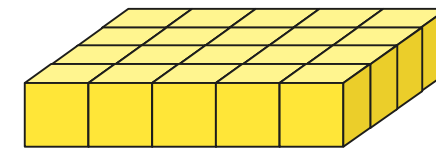
6

Here are two cuboids made of 1 cm^3 cubes.

A



B



Which shape has the greater volume? A

Show all your working to prove your answer.

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A shape has a volume of 24 cm^3

Make two possible shapes from cubes and then draw them.

e.g.

