

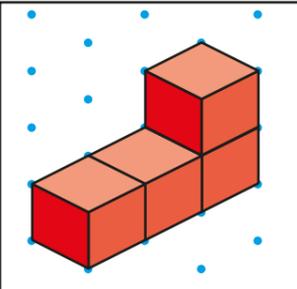
# Volume – counting cubes

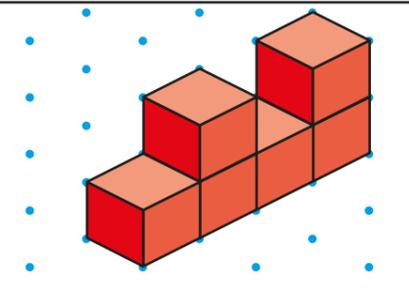


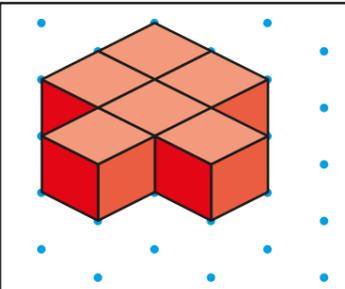
1 Use seven cubes to make three different shapes.  
Each shape must use all the cubes.

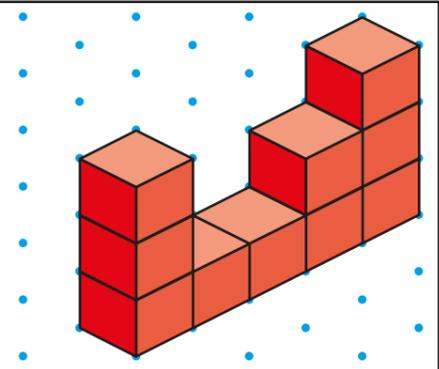


2 How many cubes are needed to make each shape?  
There are no hidden cubes.

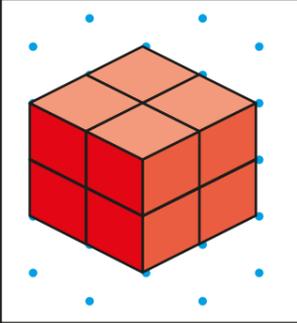
a)   cubes

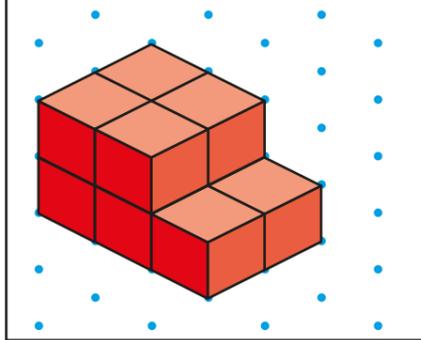
c)   cubes

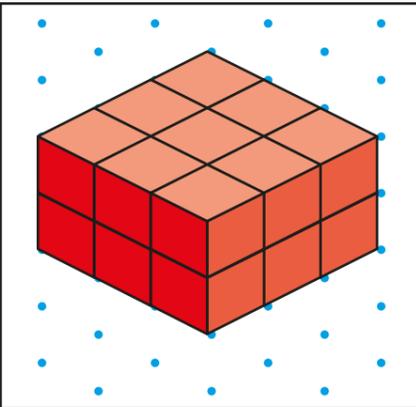
b)   cubes

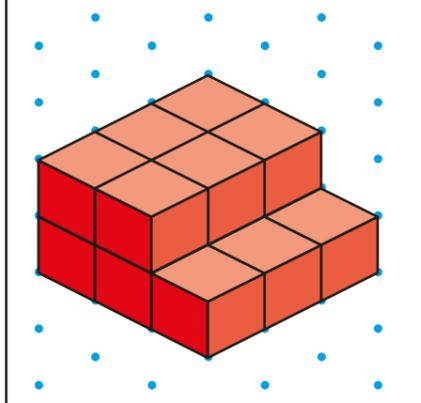
d)   cubes

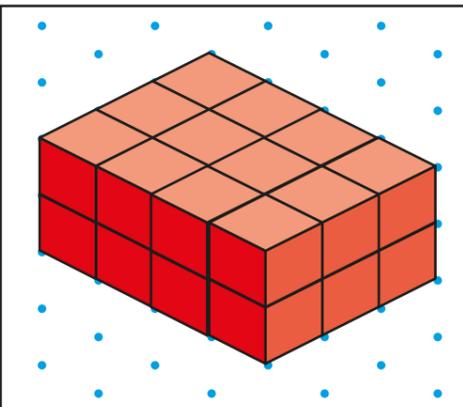
3 How many cubes are needed to make each shape?

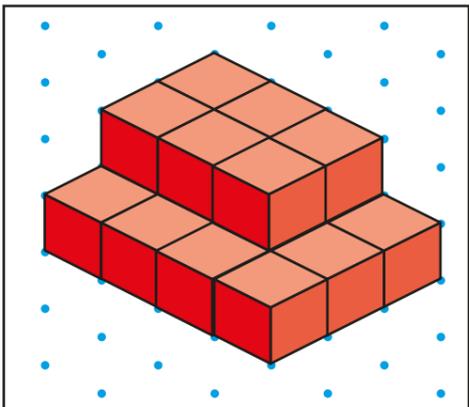
a)   cubes

d)   cubes

b)   cubes

e)   cubes

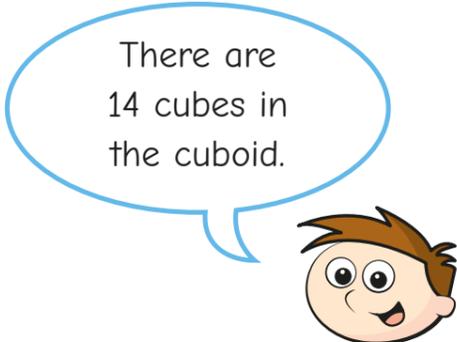
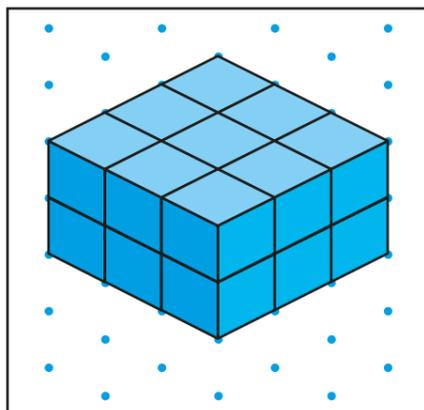
c)   cubes

f)   cubes

Discuss the method you used with a partner.



4 Teddy is counting cubes.



Explain Teddy's mistake.

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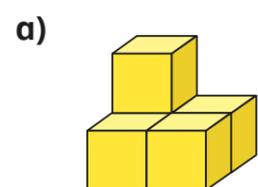


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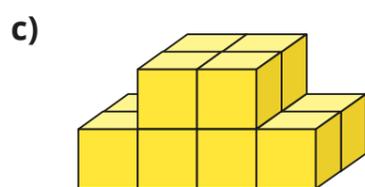


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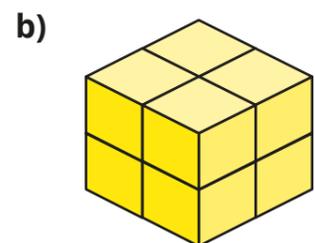
5 If one cube is worth  $1 \text{ cm}^3$ , what are the volumes of the shapes?



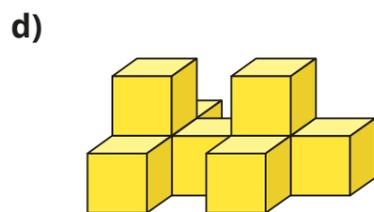
volume =   $\text{cm}^3$



volume =   $\text{cm}^3$

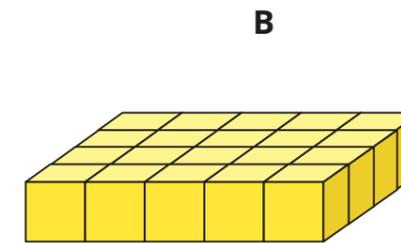
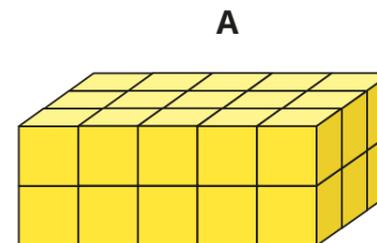


volume =   $\text{cm}^3$



volume =   $\text{cm}^3$

6 Here are two cuboids made of  $1 \text{ cm}^3$  cubes.



Which shape has the greater volume? \_\_\_\_\_

Show all your workings to prove your answer.

7 A shape has a volume of  $24 \text{ cm}^3$

Make two possible shapes from cubes and then draw them.

