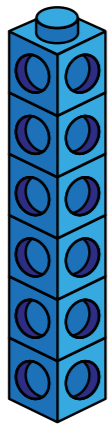


Compare volume

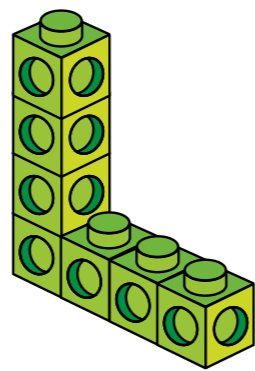


- 1 Whitney and Tommy have each made a shape using cubes. Each cube has a volume of 1 cm^3

Whitney



Tommy



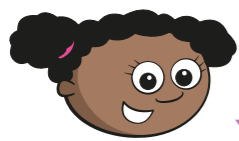
a) What is the volume of Whitney's shape?

cm^3

b) What is the volume of Tommy's shape?

cm^3

c) Whitney and Tommy are comparing the volumes of their shapes.



Whitney

My shape has a greater volume because it is taller.



Tommy

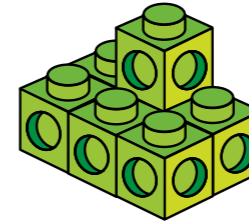
My shape has a greater volume because I used more cubes.

Who do you agree with? _____

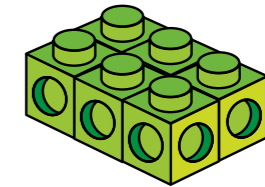
Explain your answer.

- 2 Each cube has a volume of 1 cm^3
What is the volume of each shape?

a)

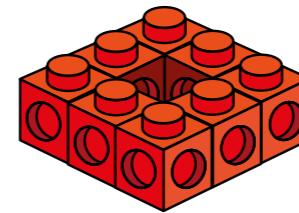


volume = cm^3

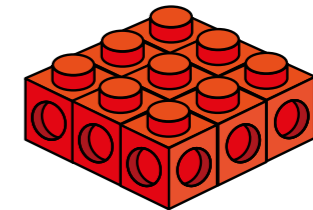


volume = cm^3

b)

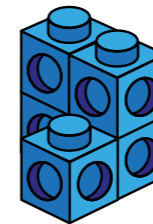


volume = cm^3

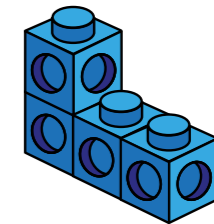


volume = cm^3

c)

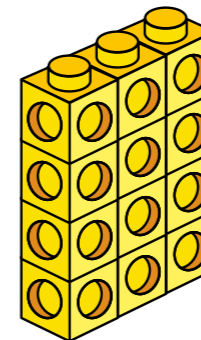


volume = cm^3

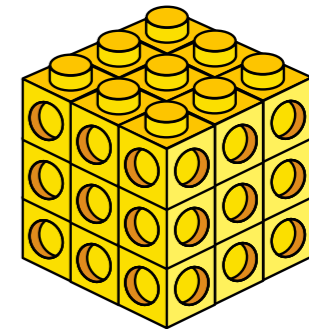


volume = cm^3

d)



volume = cm^3

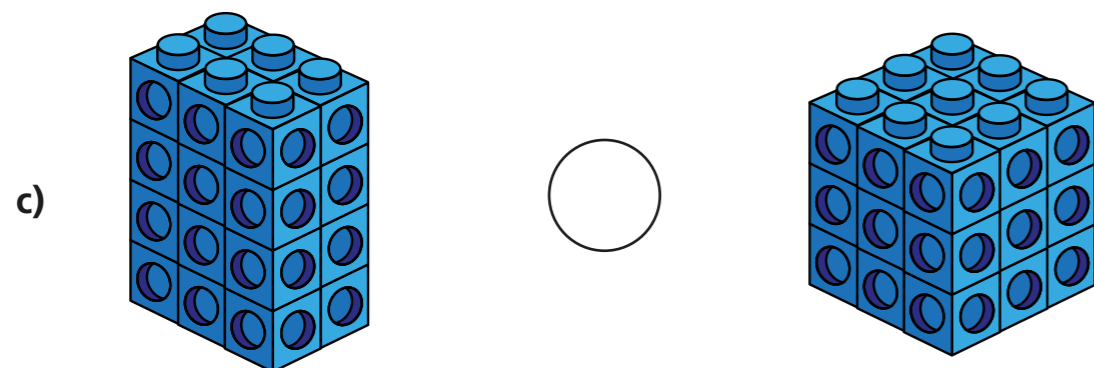
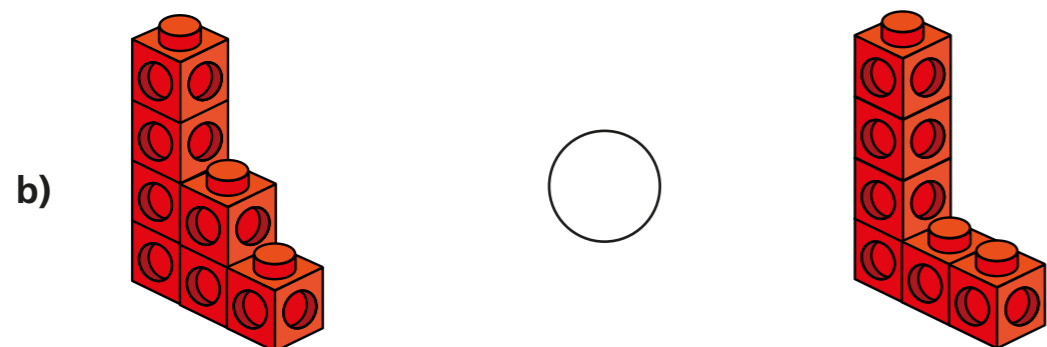
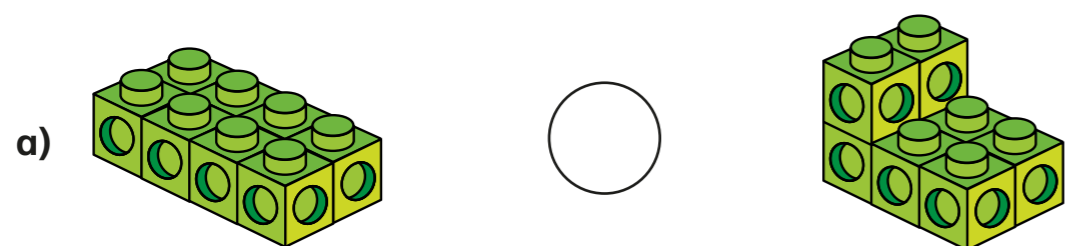


volume = cm^3

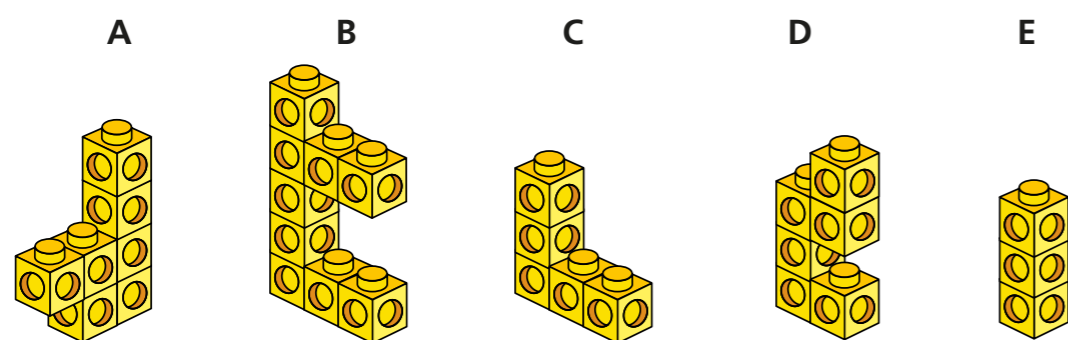
Tick the shape with the greater volume in each pair.



3 Write $<$, $>$ or $=$ to compare the volumes of the shapes.



4 Here are some shapes made from cubes.

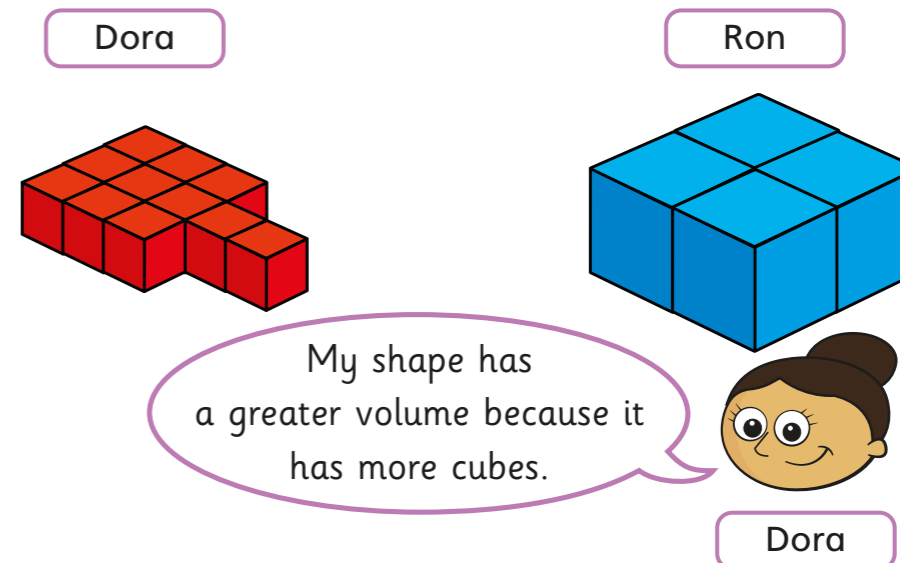


Put the shapes in ascending order of volume.

Make your own shapes for a partner to put in order.



5 Dora and Ron have each made a shape using cubes.

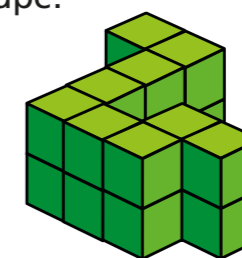


Do you agree with Dora? _____

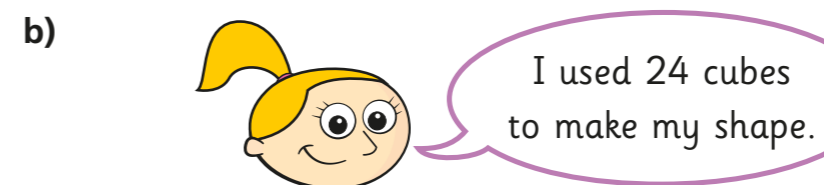
Talk about it with a partner.

6 Amir, Eva and Alex have made shapes out of centimetre cubes.

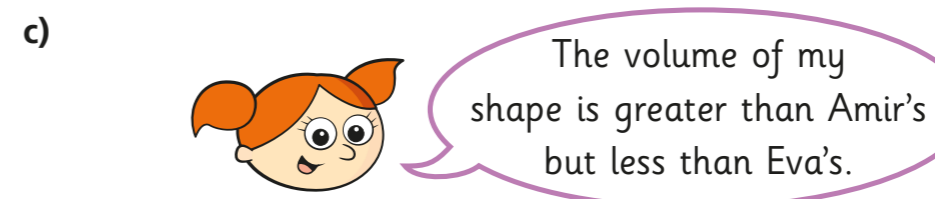
a) Amir has made this shape.



What is the volume of Amir's shape? cm^3



What is the volume of Eva's shape? cm^3



What could the volume of Alex's shape be? cm^3

Compare answers with a partner.