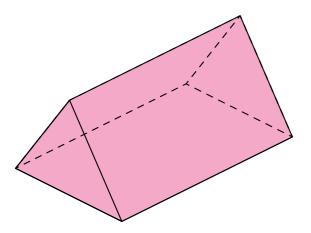
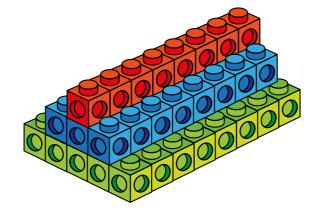
Estimate volume



Rosie is using cubes to estimate the volume of a triangular prism.





- a) Why do you think Rosie stacked her cubes like this?
- **b)** The volume of each cube is 1 cm³

 Work out an estimate for the volume of the triangular prism.

 Show your workings.

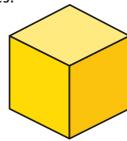


- c) Why is the answer only an estimate?
- **d)** Do you think the estimate is more or less than the actual volume?



2 Here are some 3D shapes.



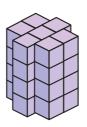


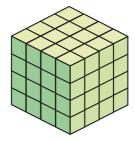


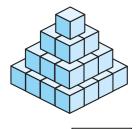
Rosie uses cubes to estimate the volume of each shape.

Each cube has a volume of 1 cm³

a) Tick the representation that will give Rosie the best estimate for the volume of the cube.



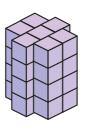


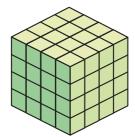


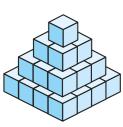
Estimate the volume of the cube.

cn

b) Tick the representation that will give Rosie the best estimate for the volume of the hexagonal prism.



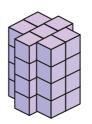


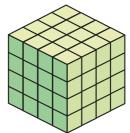


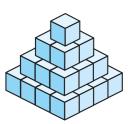
Estimate the volume of the hexagonal prism.

cm ³

c) Tick the representation that will give Rosie the best estimate for the volume of the square based pyramid.



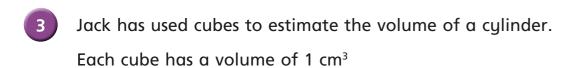


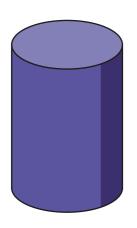


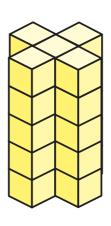
Estimate the volume of the square based pyramid.



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a) Estimate the volume of the cylinder.

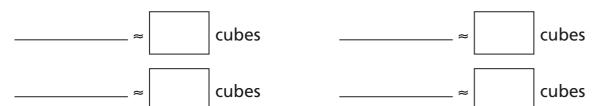
volume ≈		cm³
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b) Will the actual volume be greater than or less than your estimate?

E dele		
Explain your answer.		

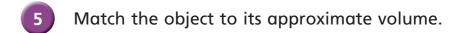
Use cubes to estimate the volume of objects in your classroom.

Record some of your answers here.



Compare answers with a partner.









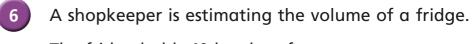


330 cm³

33,000 cm³

330,000 cm³

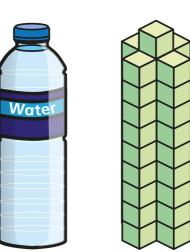
How did you decide?



The fridge holds 40 bottles of water.

The shopkeeper uses cubes to estimate the volume of one bottle of water.

Each cube has a volume of 10 cm³





Estimate the volume of the fridge.

volume ≈ cm³

Does this mean that all fridges have the same volume?



