Teddy says my 3-D shape has 6 faces. Mo says he must have a cube.

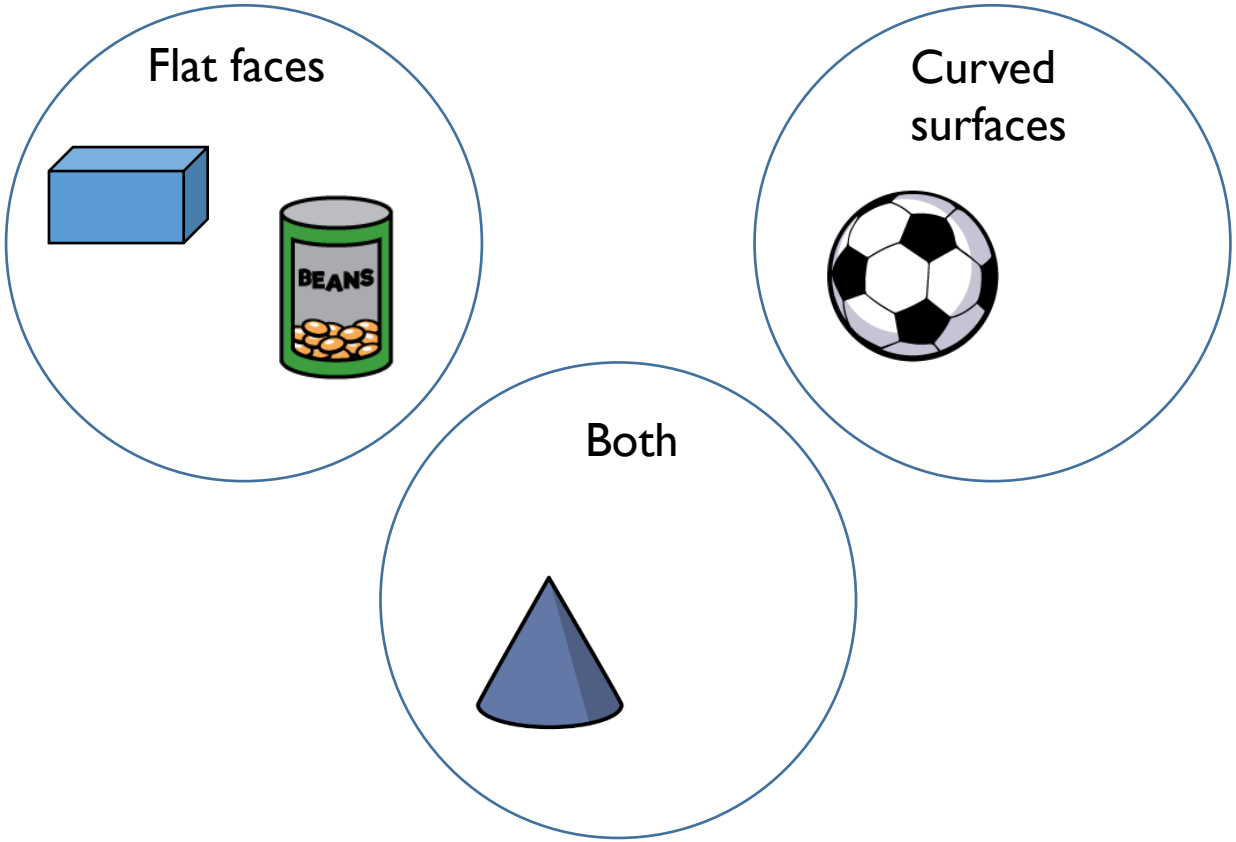
Is Mo correct?

Explain your answer.

Annie has sorted these 3-D shapes.

Can you spot her mistake?

Can you add another shape to each set?



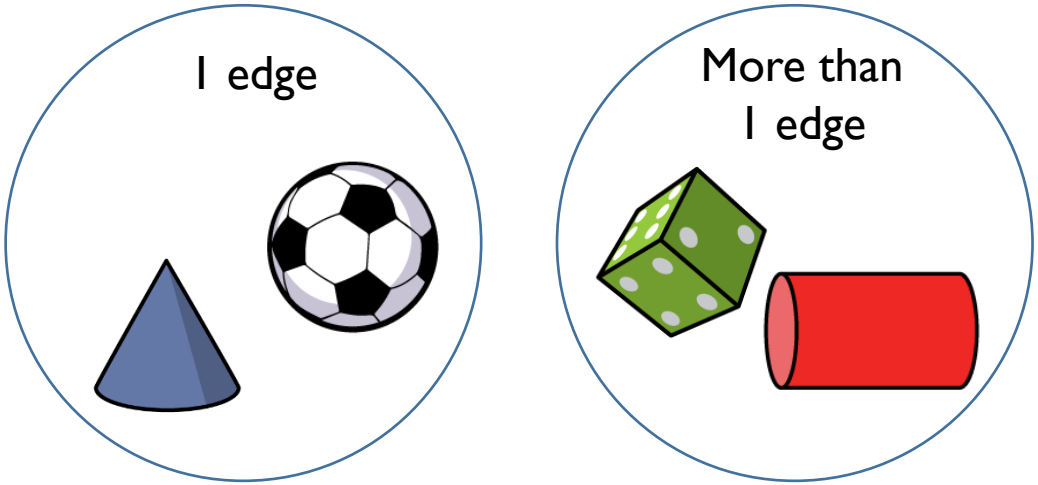
Whitney says,

I have a 3-D shape with 2 square faces and 4 rectangular faces.

What shape does Whitney have?

Play this game with a partner. Describe the faces of a 3-D shape and they need to guess what it is.

Ron has sorted these shapes according to the number of edges.

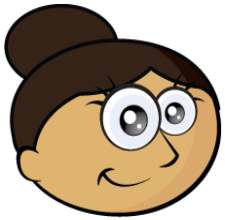


Which shape is in the wrong place?

Explain why.

My 3-D shape has 12 edges.

Eva



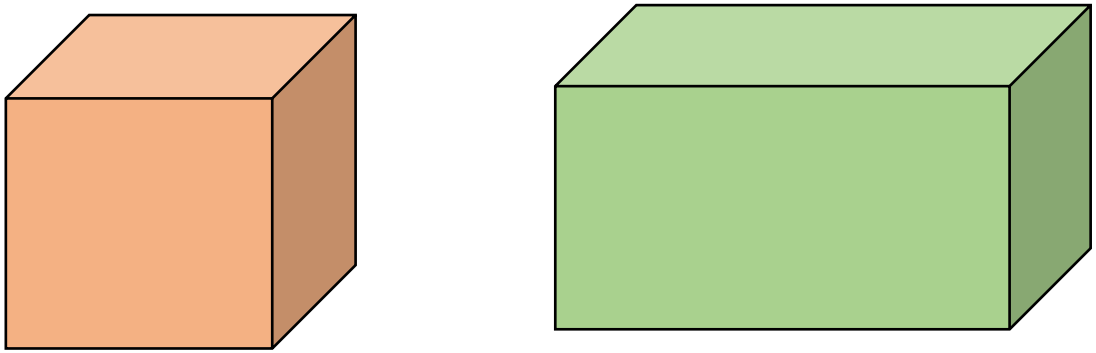
Dora

You could have a cube, cuboid or square-based pyramid.

Is Dora correct?

Explain your answer.

Compare these 3-D shapes.



What is the same and what is different?

Jack says,

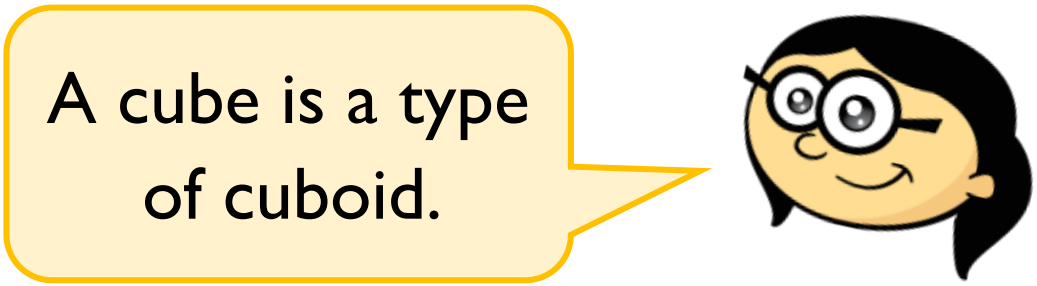
All 3-D shapes have at least one vertex.

Is this true or false?

Explain why

Annie is sorting 3-D shapes.

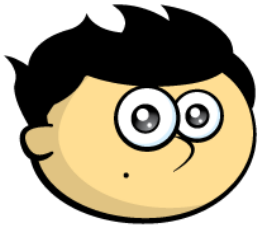
She puts a cube in the cuboid pile.



Do you agree? Why?

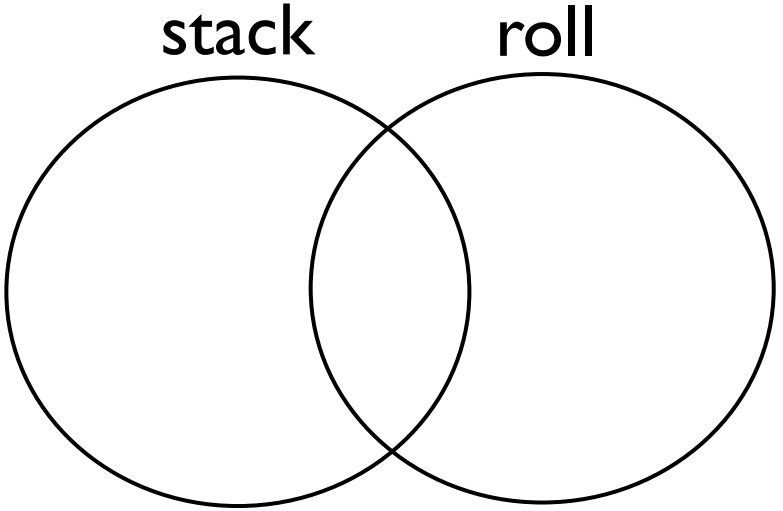
Jack is investigating which shapes stack and which shapes roll.

He says,



Some shapes will stack **and** roll.

Is he correct?

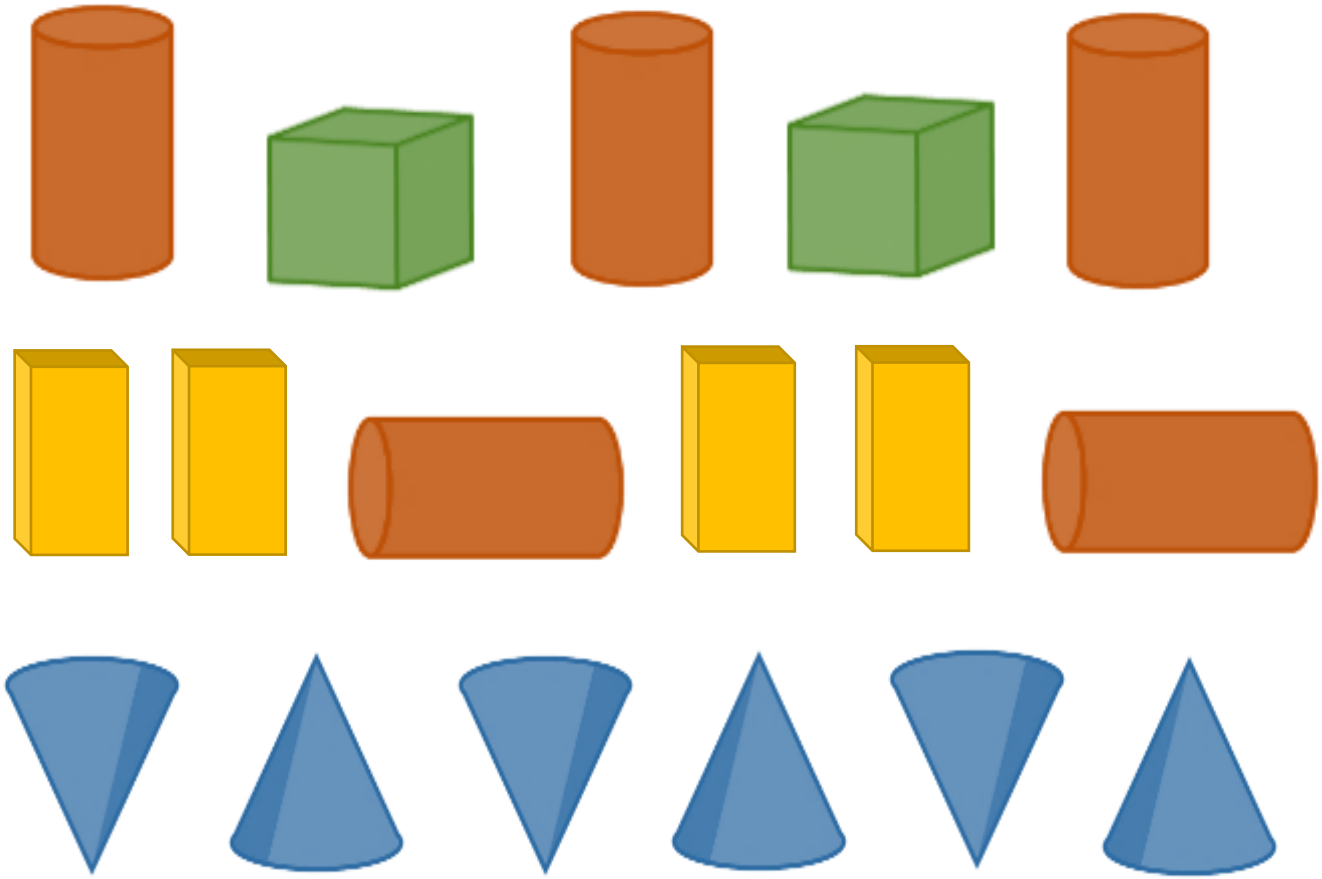


Sort your shapes using the Venn diagram. Explain what you notice about each set.

Do all shapes with flat surfaces stack?

What is the same about these patterns?

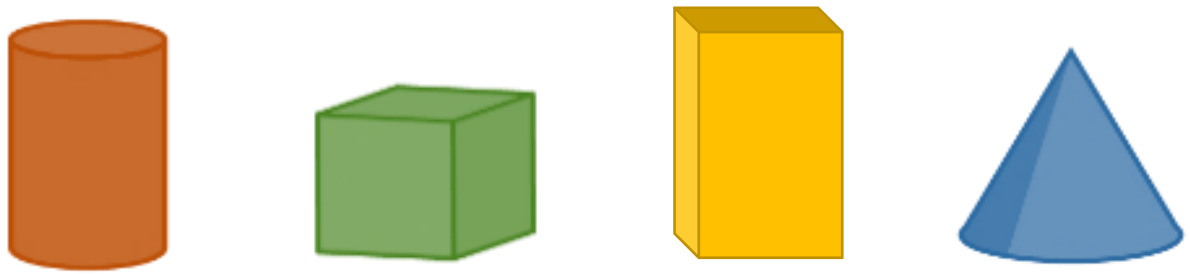
What is different about these patterns?



Choose two 3-D shapes.

What different repeating patterns could be made?

Using the 3-D shapes:



- Make a repeating pattern where there are more cones than cuboids.
- Make a repeating pattern where the third shape is always a cylinder.