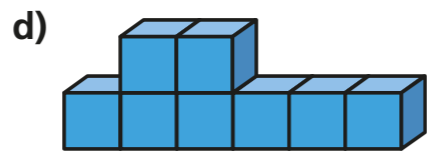
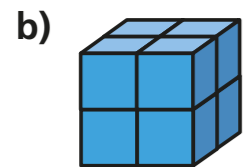
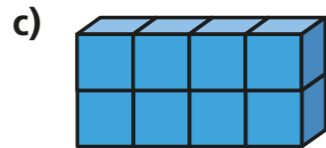
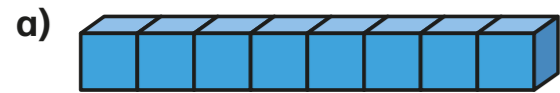
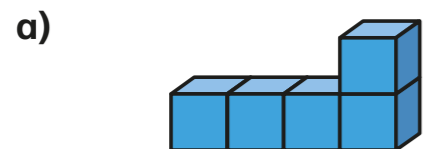


Make 3D shapes

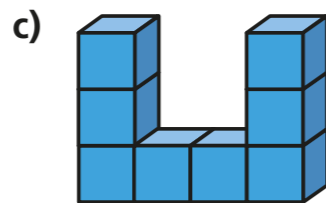
1 Take 8 cubes.
Make each of the 3D shapes.



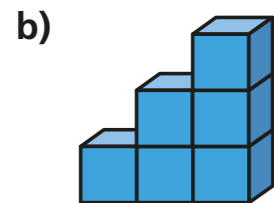
2 How many cubes do you need to make each 3D shape?



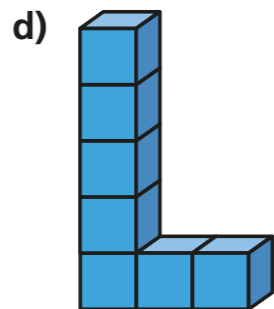
5



8



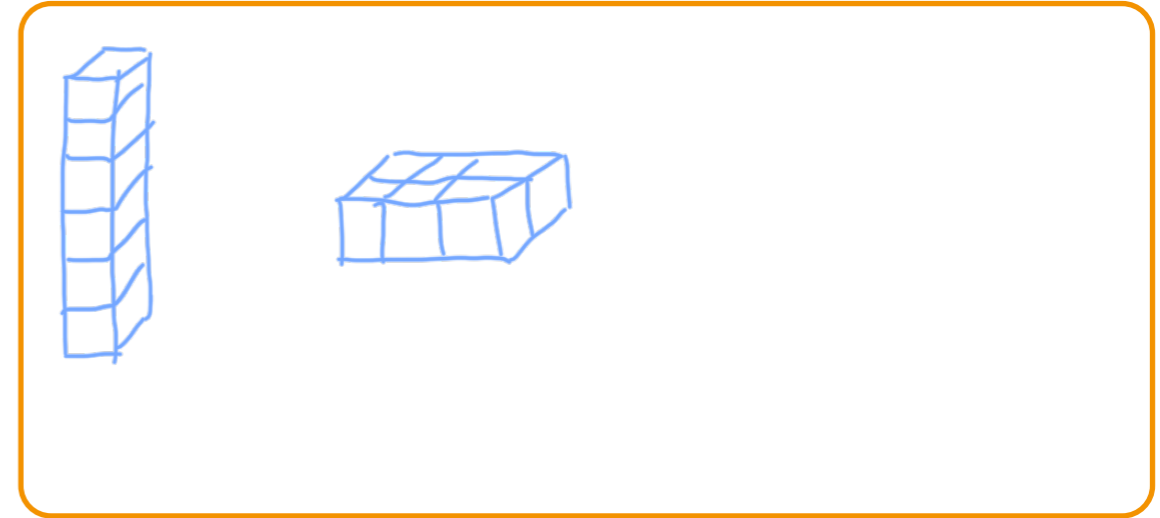
6



7

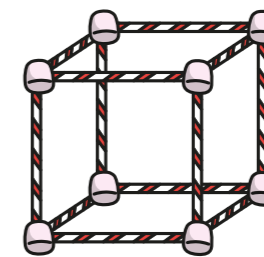
3 Take 6 cubes.
How many different cuboids can you make?
Draw them here.

e.g.



Compare answers with a partner.
What is the same? What is different?

4 Annie makes a cube using some straws and marshmallows.



a) What did she use to make the edges of the cube?

straws

b) How many edges does the cube have?

12

c) What did she use for the vertices of the cube?

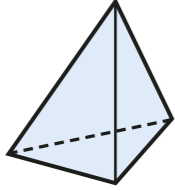
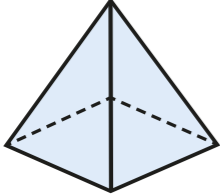
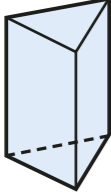
marshmallows

d) How many vertices does the cube have?

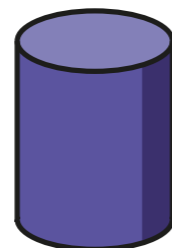
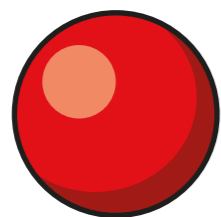
8



- 5 How many straws and marshmallows would you need to make each 3D shape?

3D shape	Number of edges (straws)	Number of marshmallows (vertices)
	6	4
	8	5
	9	6

- 6 Try to make the shapes using cubes.

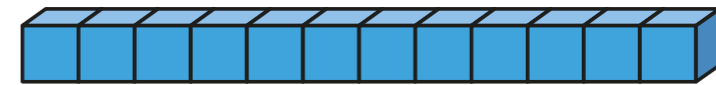


Is it possible? No

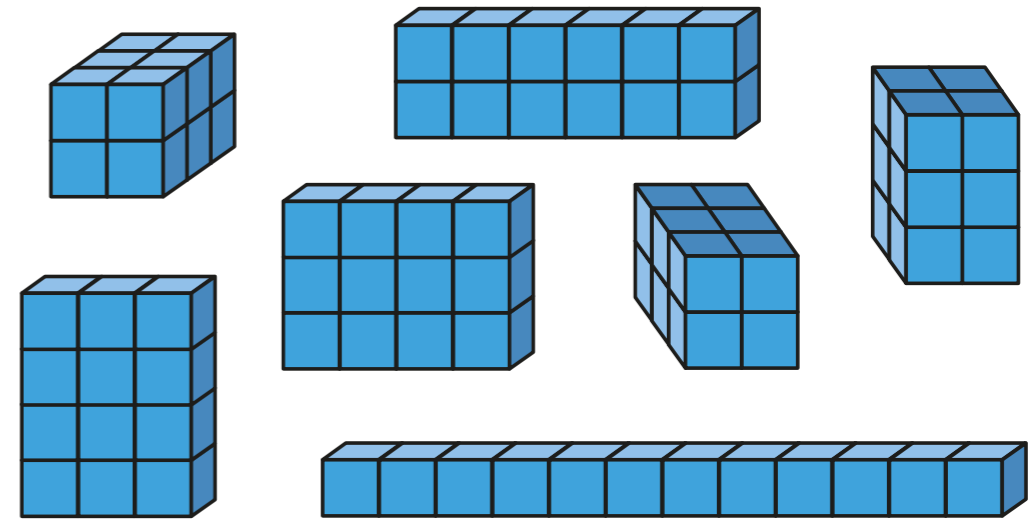
Talk to a partner about what you found.



- 7 Filip has 12 cubes.



He puts them together to make cuboids.

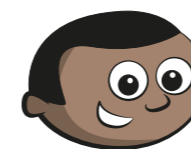
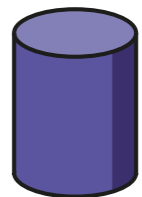


How many **different** cuboids has Filip made?

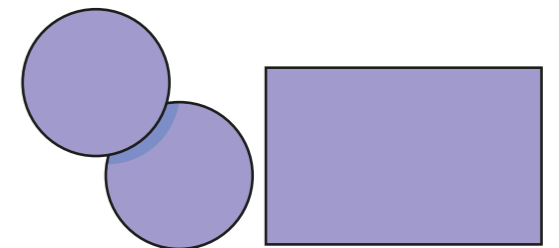
4

- 8 Mo is trying to make a cylinder.

He has some circles of paper and some rectangular card.



I do not think I can make the cylinder from these.



Show how Mo can make the shape.



Talk about it with a partner.

