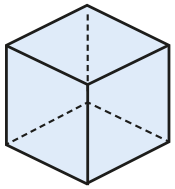
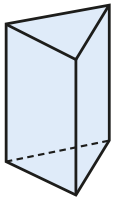
Count edges on 3D shapes

1 How many edges does each shape have?

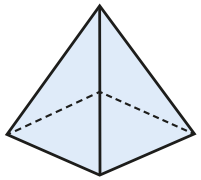
a)



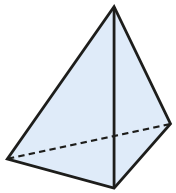
c)



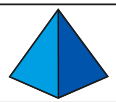
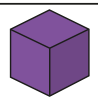
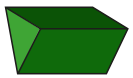
b)



d)



2 Complete the table.

Shape	Name	Number of edges	Number of faces
			
			
			
			

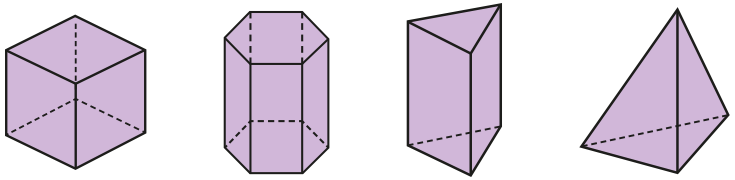
3

3D shapes always have more edges than faces.

Do you agree?

Why?

4 Use the clues to label the shape with the correct letter.



- Shape A has an odd number of edges.
- Shape B has the most edges.
- Shape C has the same number of edges as a cube has faces.
- The edges of shape D are all the same length.

Count edges on 3D shapes

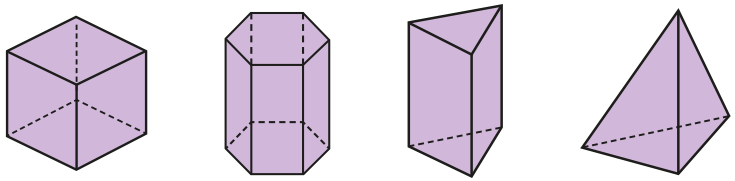
3

3D shapes always have more edges than faces.

Do you agree?

Why?

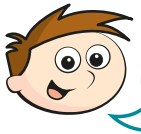
4 Use the clues to label the shape with the correct letter.



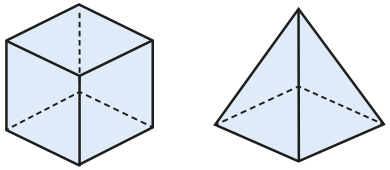
- Shape A has an odd number of edges.
- Shape B has the most edges.
- Shape C has the same number of edges as a cube has faces.
- The edges of shape D are all the same length.

5 Write the name of two 3D shapes that have the same number of edges.

6



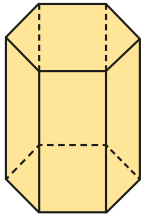
A cube has 6 faces and 12 edges, so a square-based pyramid must have 5 faces and 10 edges. The number of edges is always double the number of faces.



Do you agree with Teddy?

Why?

7 This hexagonal prism has 18 edges.



How many edges do you think a pentagonal prism has?

Why do you think this?