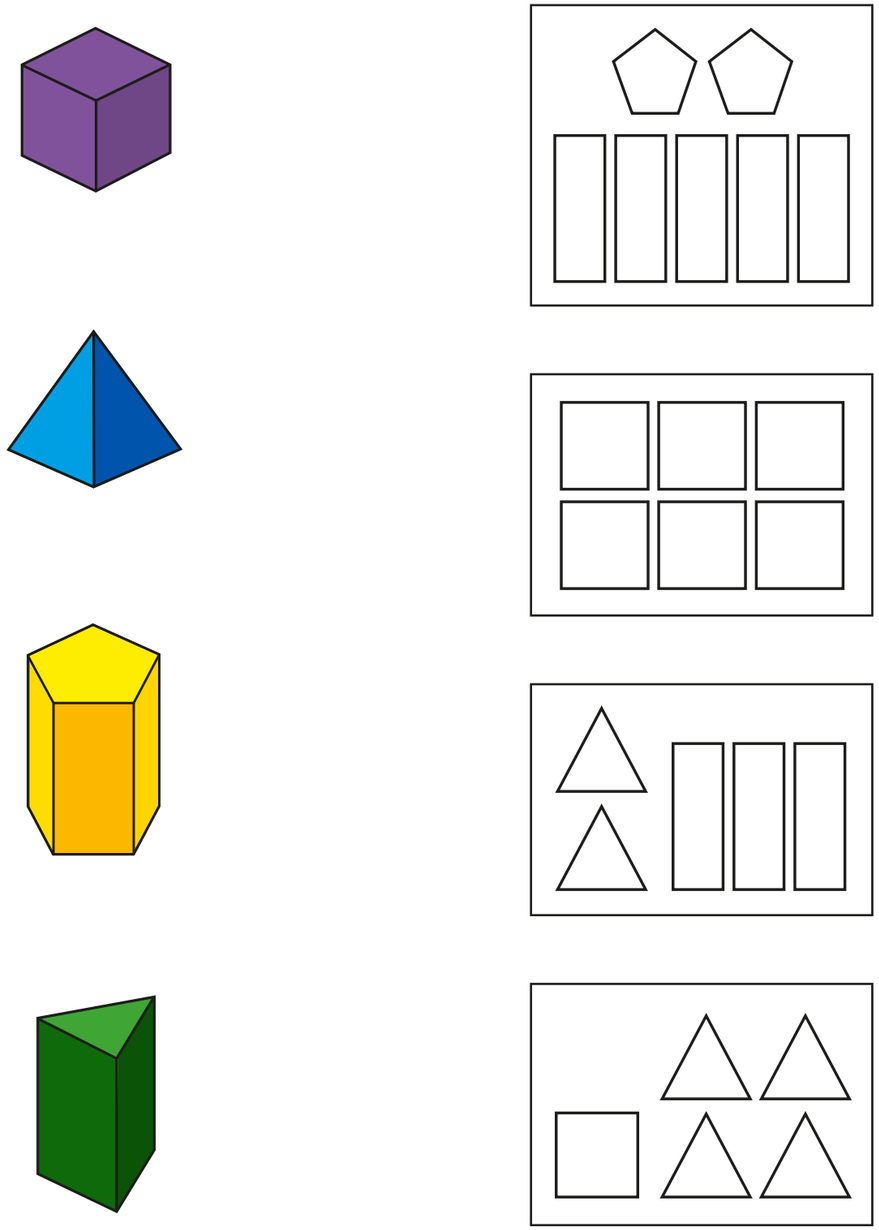
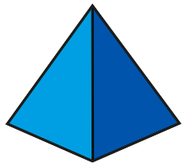
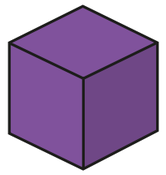
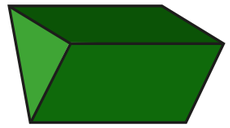
Count faces on 3D shapes

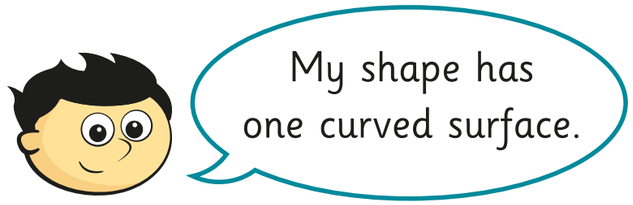
1 Match the shapes to the faces.



2 Complete the table.

Shape	Name	Number of faces
		
		
		

3



What shape is Jack describing? _____

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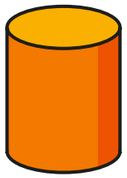
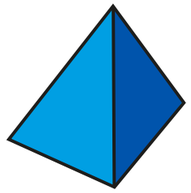
4 Match the description to the shape.

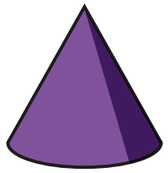
1 circular face and 1 curved surface



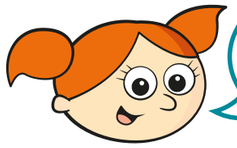
2 circular faces and 1 curved surface



4 triangular faces



5



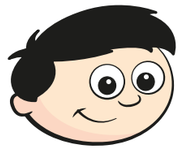
A cube is the only 3D shape with 6 faces.

Alex has made a mistake.

Name another 3D shape that has 6 faces.

_____

6 Dexter has 5 of the same 3D shapes.



In total, my shapes have 10 circular faces.

What shapes has Dexter got?

Dexter has got 5 _____

7 Dora wants to put a sticker on each face of some cubes.

She has 60 stickers.

How many cubes can she cover in stickers?

Dora can cover ☐ cubes in stickers.

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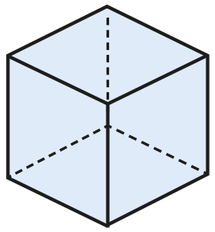
Count edges on 3D shapes

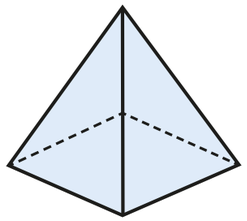
1 How many edges does each shape have?

a)



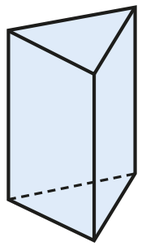
edges

b)



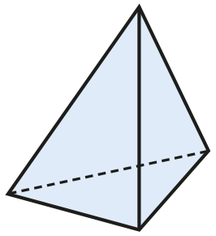
edges

c)



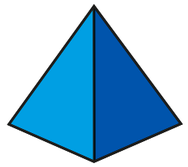
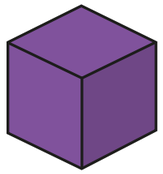
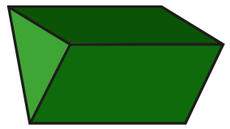
edges

d)

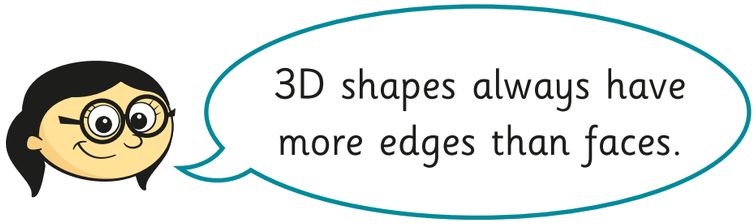


edges

2 Complete the table.

Shape	Name	Number of edges	Number of faces
			
			
			

3



Do you agree? _____

Why?

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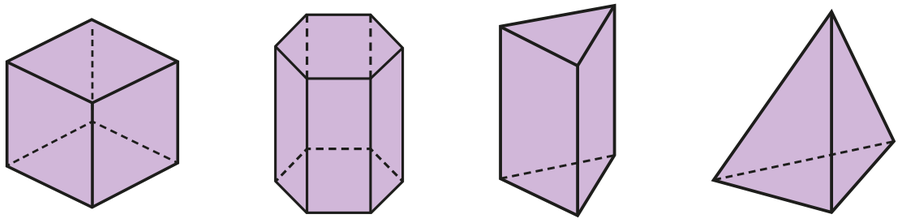
4 Use the clues to label the shape with the correct letter.



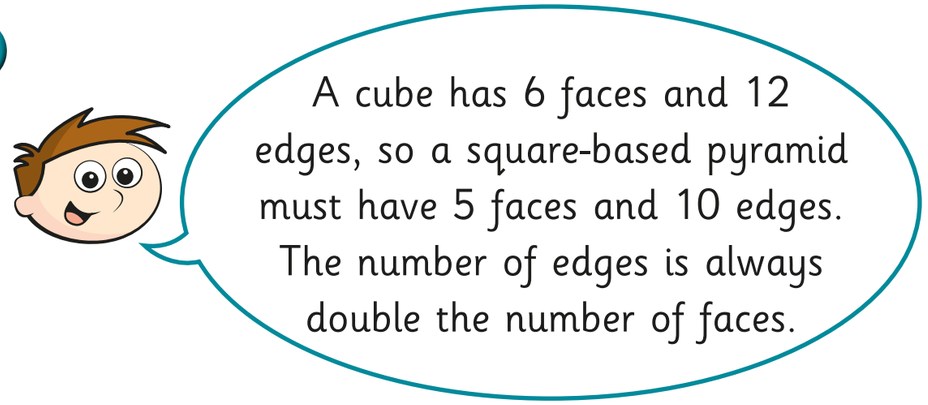
_____ _____ _____ _____

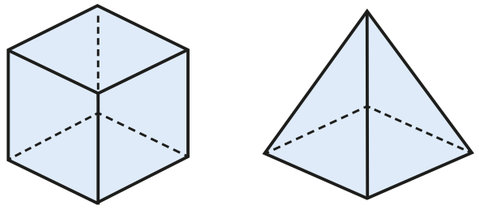
- Shape A has an odd number of edges.
- Shape B has the most edges.
- Shape C has the same number of edges as a cube has faces.
- The edges of shape D are all the same length.

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

_____ and _____

6

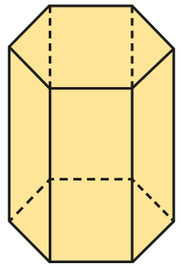




Do you agree with Teddy? _____

Why?

7 This hexagonal prism has 18 edges.



How many edges do you think a pentagonal prism has?

Why do you think this?

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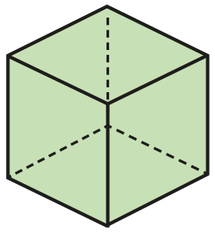
Count vertices on 3D shapes

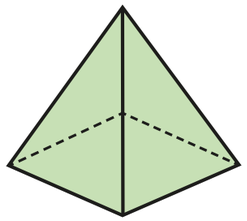
1 How many vertices does each shape have?

a)



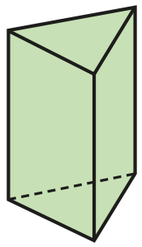
☐ vertices

b)



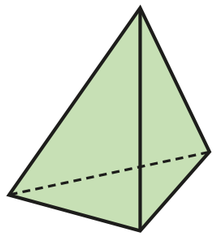
☐ vertices

c)



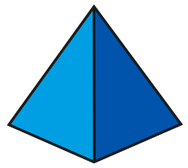
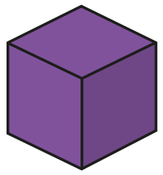
☐ vertices

d)



☐ vertices

2 Complete the table.

Shape	Name	Number of vertices
		
		

Write the name of a different 3D shape with no vertices.

_____

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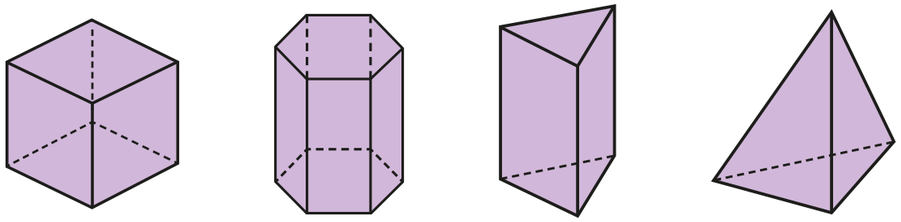
3 Write the shapes in order of the number of vertices.

Start with the shape that has the fewest vertices.



A B C D

fewest most

_____ _____ _____ _____

4 Complete the sentences.

more fewer

a) A cube has _____ vertices than a sphere.

b) A sphere has _____ vertices than a cone.

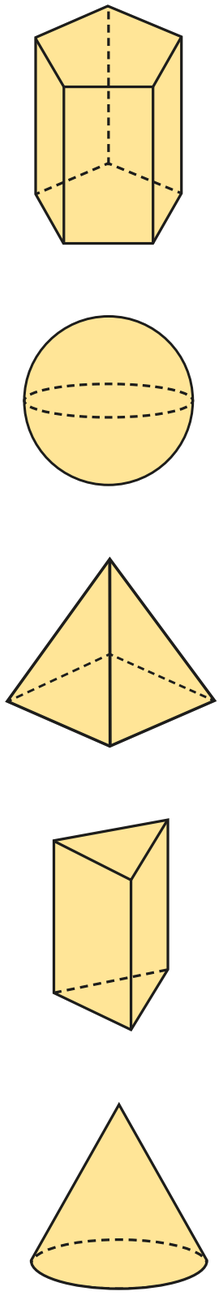
c) A triangular prism has _____ vertices than a cuboid.

5 Match each shape to the correct label.

< 5 vertices

= 5 vertices

> 5 vertices



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