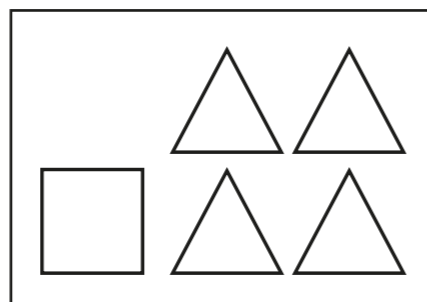
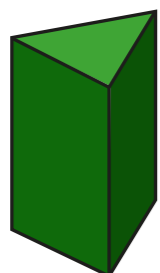
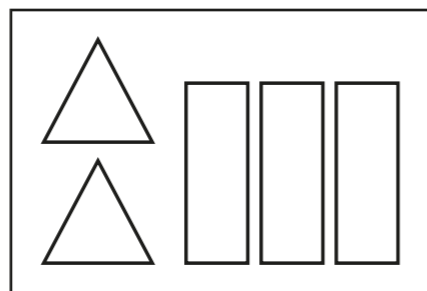
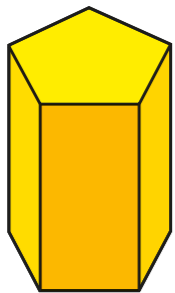
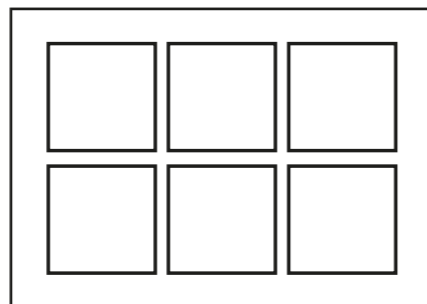
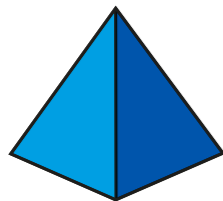
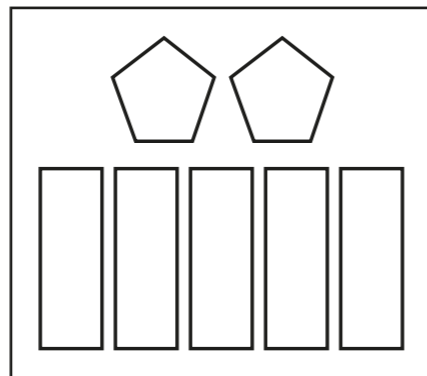
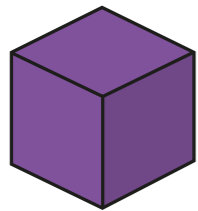



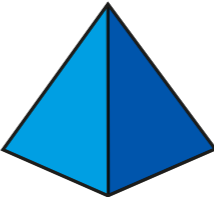
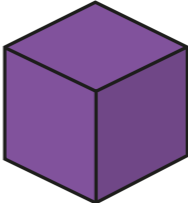
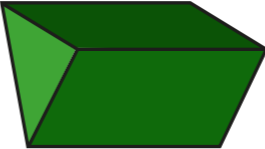
# Count faces on 3D shapes



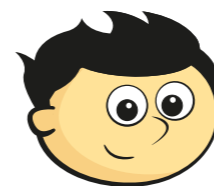
1 Match the shapes to the faces.



2 Complete the table.

Shape	Name	Number of faces
		
		
		
		

3

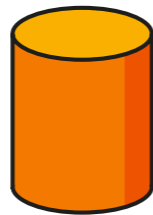


My shape has one curved surface.

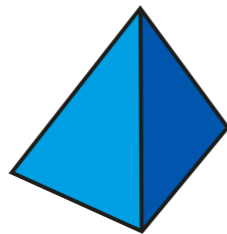
What shape is Jack describing? \_\_\_\_\_

4 Match the description to the shape.

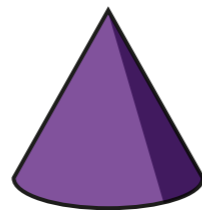
1 circular face and  
1 curved surface

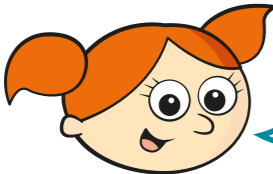


2 circular faces and  
1 curved surface



4 triangular faces



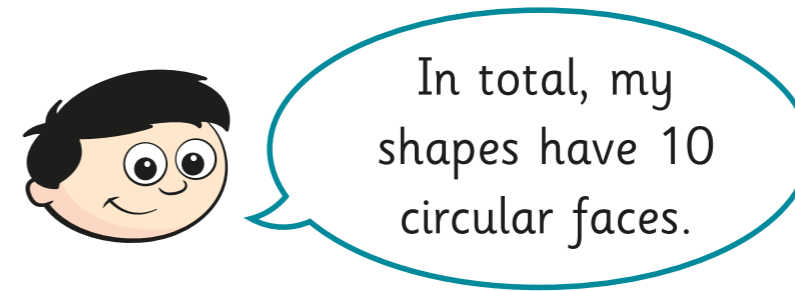
5  A cube is the only 3D shape with 6 faces.

Alex has made a mistake.

Name another 3D shape that has 6 faces.

\_\_\_\_\_

6 Dexter has 5 of the same 3D shapes.



What shapes has Dexter got?

Dexter has got 5 \_\_\_\_\_

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

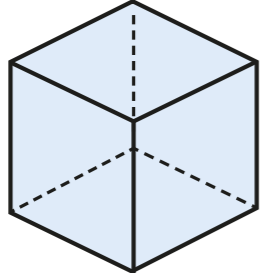
She has 60 stickers.

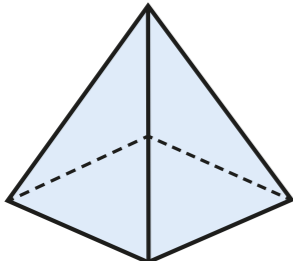
How many cubes can she cover in stickers?

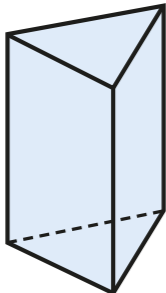
Dora can cover  cubes in stickers.

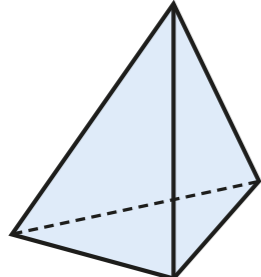
# Count edges on 3D shapes

1 How many edges does each shape have?


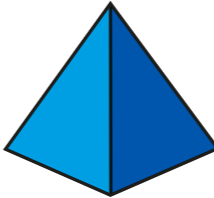
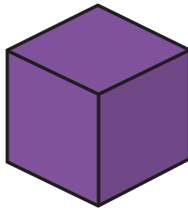
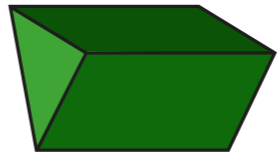
a)   edges

b)   edges

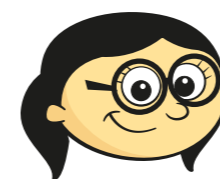
c)   edges

d)   edges

2 Complete the table.

Shape	Name	Number of edges	Number of faces
			
			
			
			

3



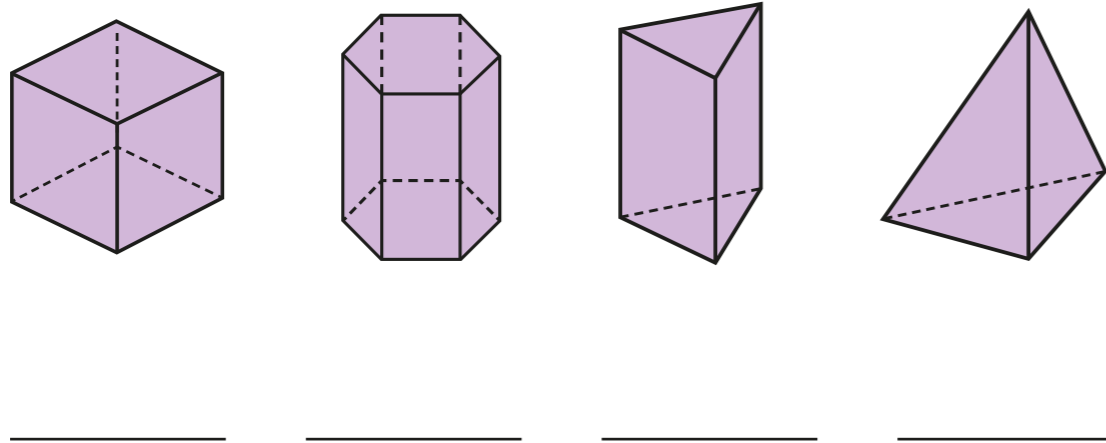
3D shapes always have more edges than faces.

Do you agree? \_\_\_\_\_

Why?



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

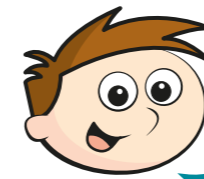


- Shape A has an odd number of edges.
- Shape B has the most edges.
- Shape C has the same number of edges as a cube has faces.
- The edges of shape D are all the same length.

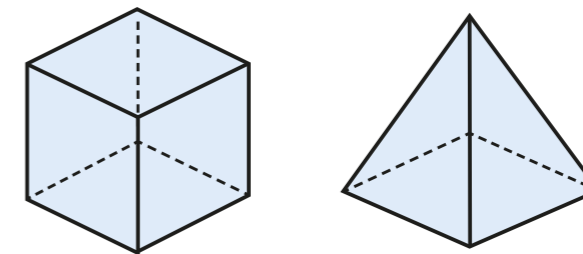
5 Write the name of two 3D shapes that have the same number of edges.

\_\_\_\_\_ and \_\_\_\_\_

6



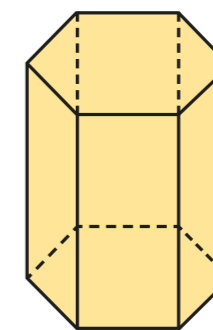
A cube has 6 faces and 12 edges, so a square-based pyramid must have 5 faces and 10 edges. The number of edges is always double the number of faces.



Do you agree with Teddy? \_\_\_\_\_

Why?

7 This hexagonal prism has 18 edges.



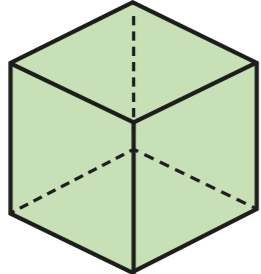
How many edges do you think a pentagonal prism has?

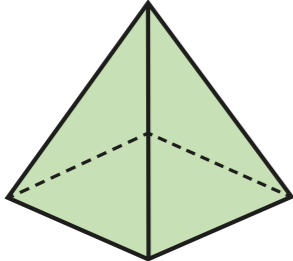
Why do you think this?

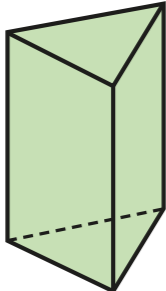


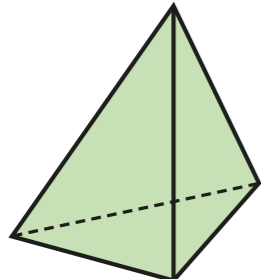
# Count vertices on 3D shapes

1 How many vertices does each shape have?


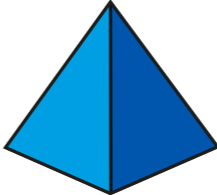
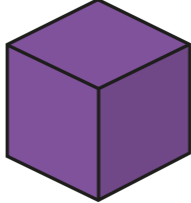

a)   vertices

b)   vertices

c)   vertices

d)   vertices

2 Complete the table.

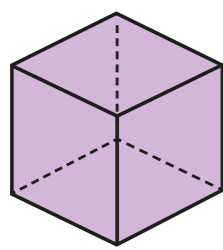
Shape	Name	Number of vertices
		
		
		
		

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

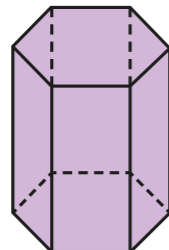
\_\_\_\_\_

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

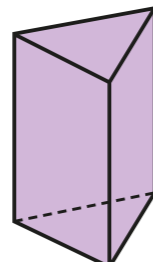
Start with the shape that has the fewest vertices.



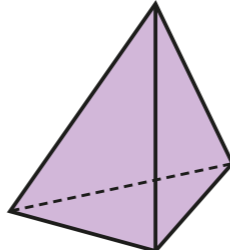
A



B



C



D

fewest

most

\_\_\_\_\_

- 4 Complete the sentences.

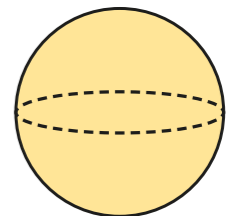
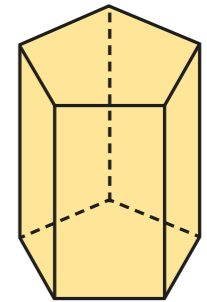
more

fewer

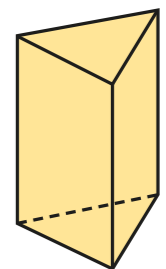
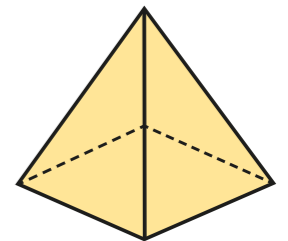
- a) A cube has \_\_\_\_\_ vertices than a sphere.
- b) A sphere has \_\_\_\_\_ vertices than a cone.
- c) A triangular prism has \_\_\_\_\_ vertices than a cuboid.

- 5 Match each shape to the correct label.

< 5 vertices



= 5 vertices



> 5 vertices

