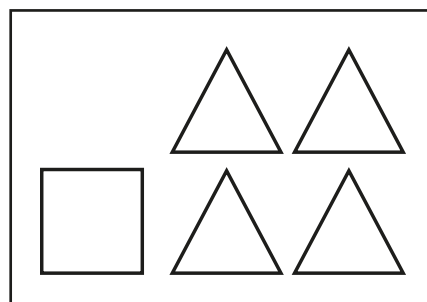
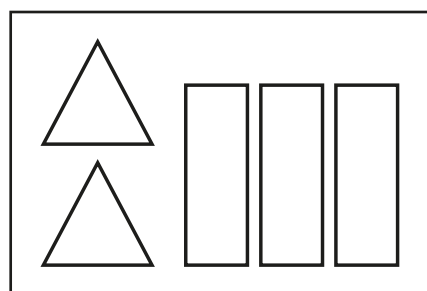
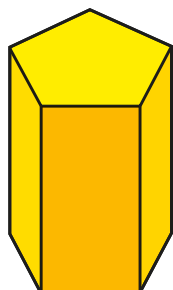
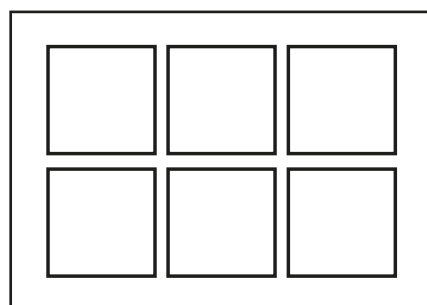
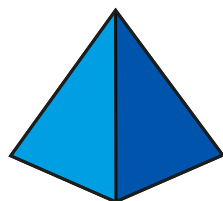
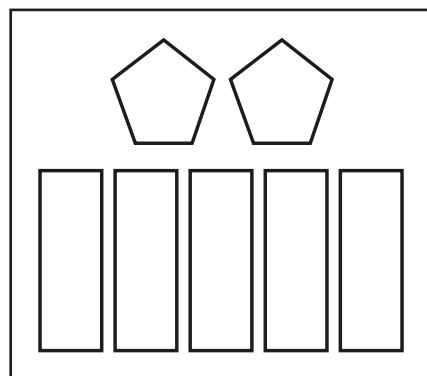
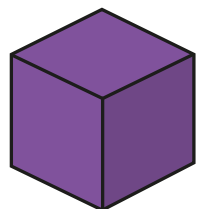
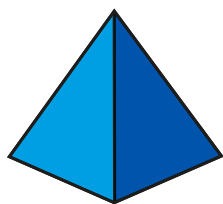
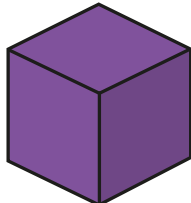
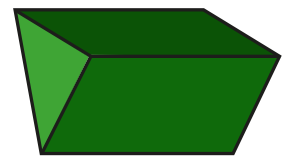


Count faces on 3D shapes

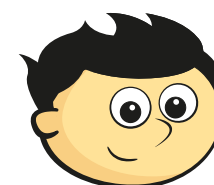
1 Match the shapes to the faces.



2 Complete the table.

Shape	Name	Number of faces
		
		
		
		

3

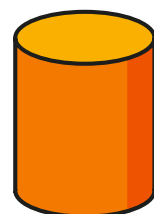


My shape has one curved surface.

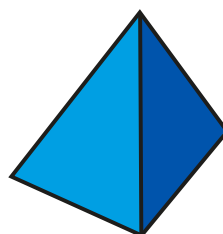
What shape is Jack describing? _____

4 Match the description to the shape.

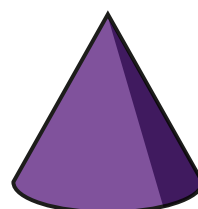
1 circular face and
1 curved surface



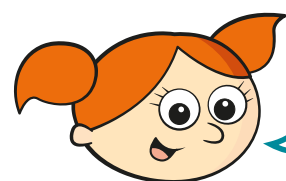
2 circular faces and
1 curved surface



4 triangular faces



5

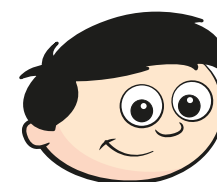


A cube is the
only 3D shape with
6 faces.

Alex has made a mistake.

Name another 3D shape that has 6 faces.

6 Dexter has 5 of the same 3D shapes.



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.

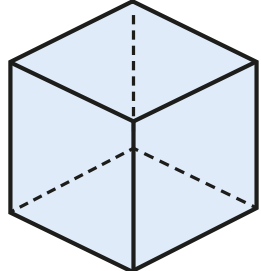
She has 60 stickers.

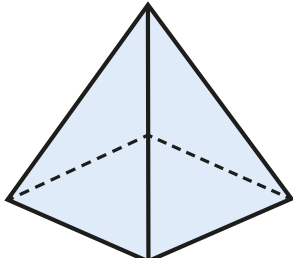
How many cubes can she cover in stickers?

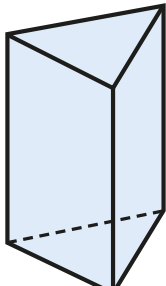
Dora can cover cubes in stickers.

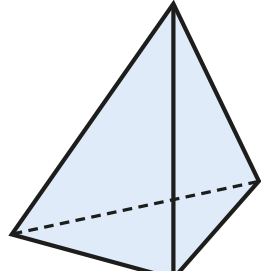
Count edges on 3D shapes

1 How many edges does each shape have?

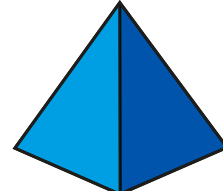
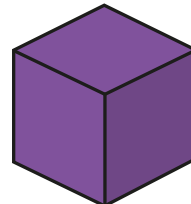
a)  edges

b)  edges

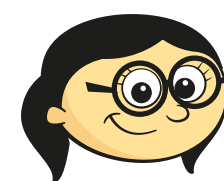
c)  edges

d)  edges

2 Complete the table.

Shape	Name	Number of edges	Number of faces
			
			
			
			

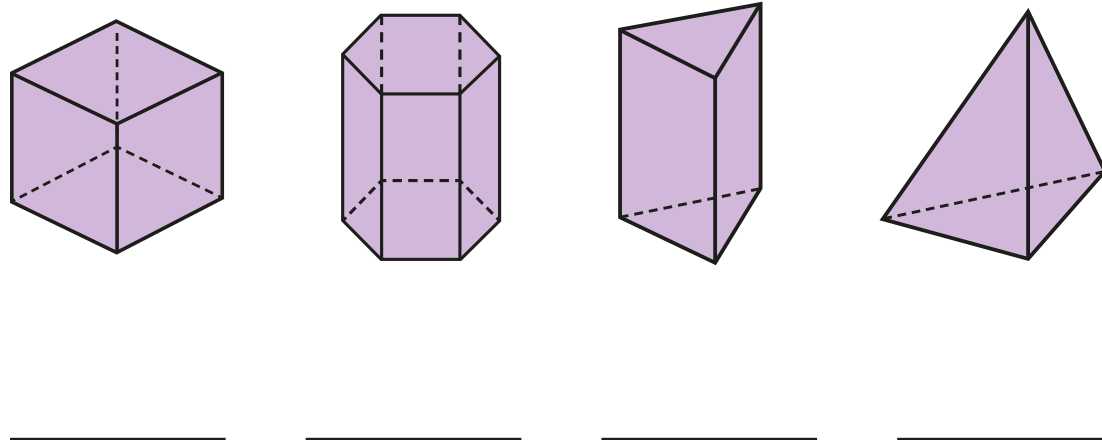
3



3D shapes always have more edges than faces.

Do you agree? _____
Why?

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



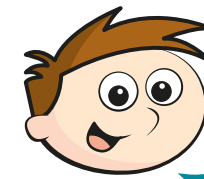
- Shape A has an odd number of edges.
- Shape B has the most edges.
- Shape C has the same number of edges as a cube has faces.
- The edges of shape D are all the same length.

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

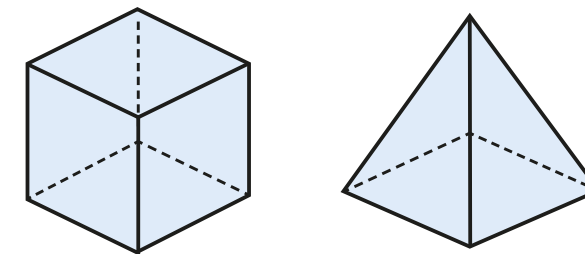
_____ and _____



6



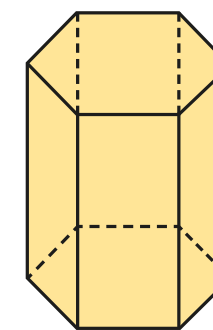
A cube has 6 faces and 12 edges, so a square-based pyramid must have 5 faces and 10 edges. The number of edges is always double the number of faces.



Do you agree with Teddy? _____

Why?

- 7 This hexagonal prism has 18 edges.



How many edges do you think a pentagonal prism has?

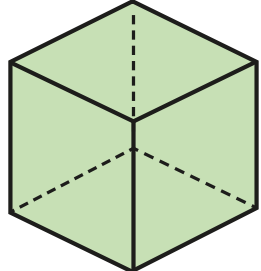


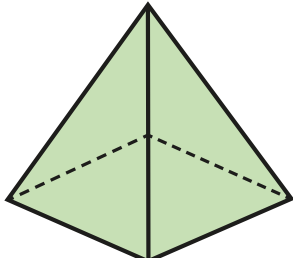
Why do you think this?

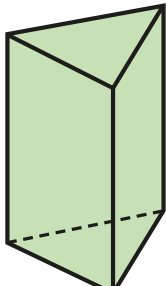


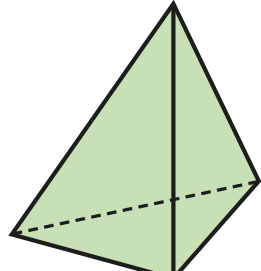
Count vertices on 3D shapes

1 How many vertices does each shape have?

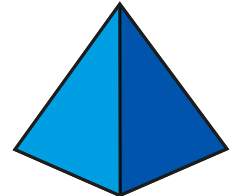
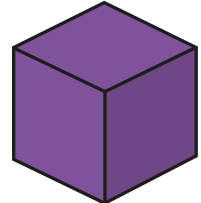
a)  vertices

b)  vertices

c)  vertices

d)  vertices

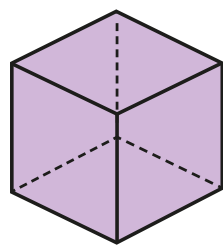
2 Complete the table.

Shape	Name	Number of vertices
		
		
		
		

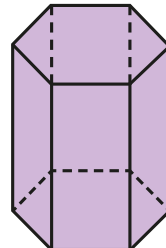
Write the name of a different 3D shape with no vertices.

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

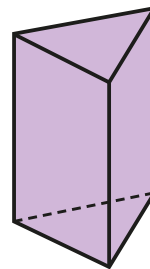
Start with the shape that has the fewest vertices.



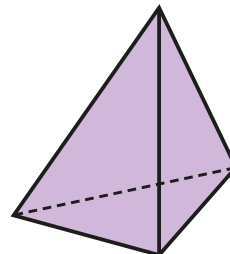
A



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

