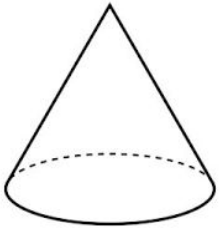
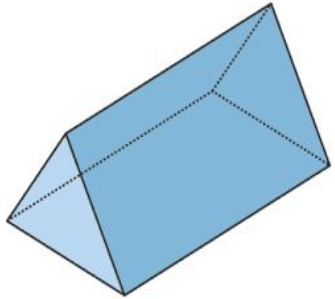
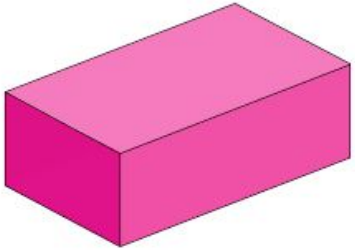
Year 4 Summer 2 Week 8 Lesson 3

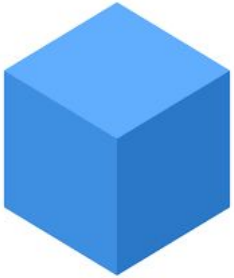
Can I classify different 3D shapes?

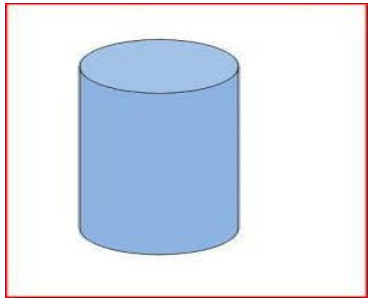
Fast Five – Name these 3D shapes.

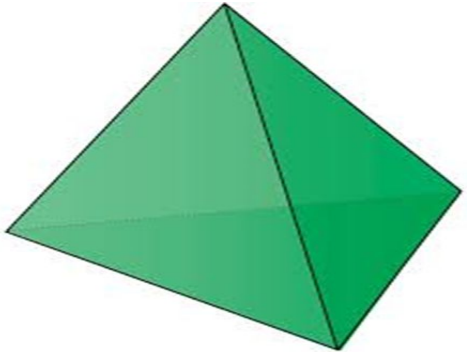




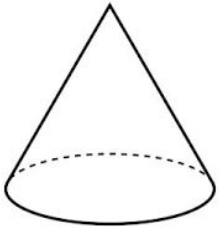




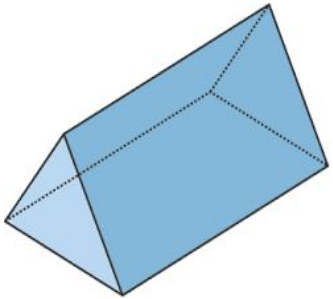




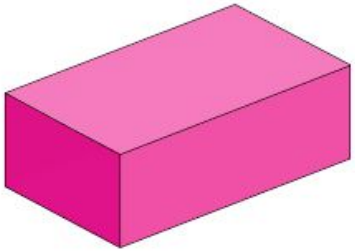
Fast Five – Answers.



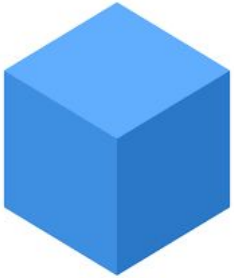
Cone



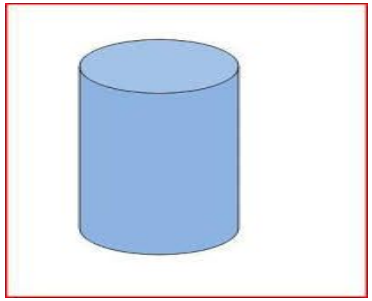
Triangular prism



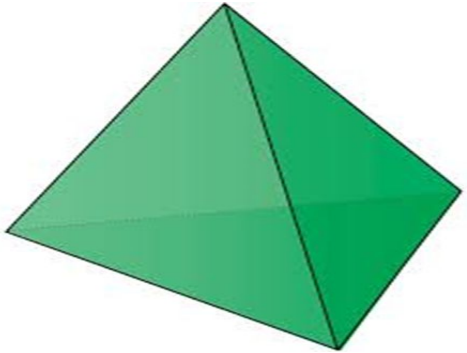
Cuboid



Cube



Cylinder



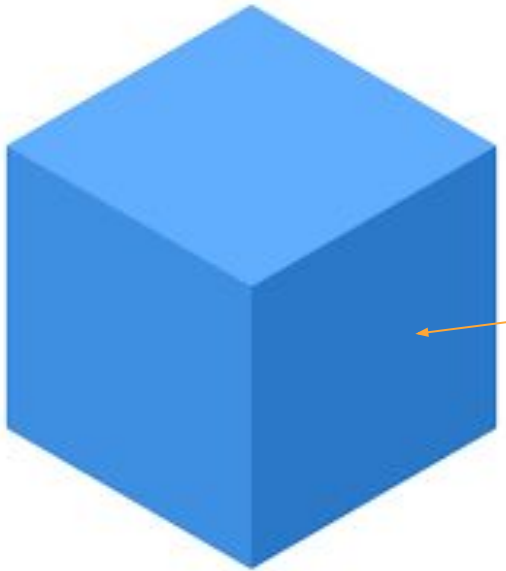
Triangular prism

Can I classify different 3D shapes?

- In order to classify a 3D shape, you need to examine what properties it has.

1. Number and shape of its faces.
2. Number of edges.
3. Number of vertices

Properties of 3D shapes – you can count the number of faces and their shapes

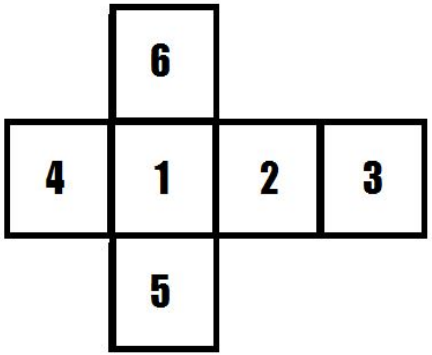


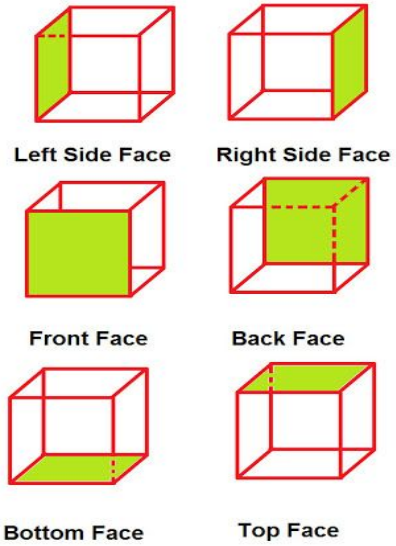
Face

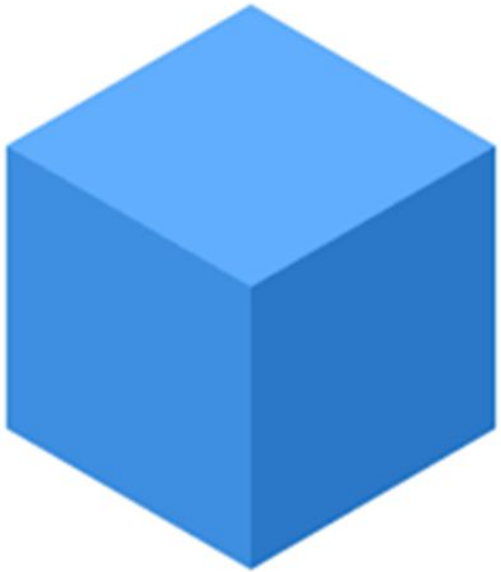
Properties of 3D shapes - Faces

A cube has 6 square faces.

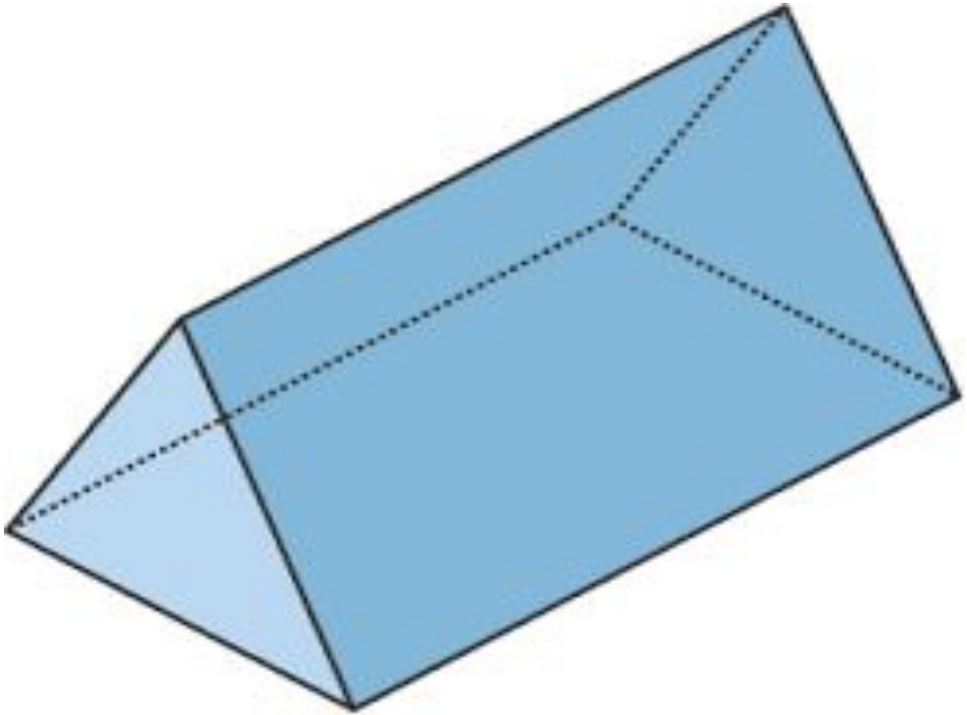
Cube



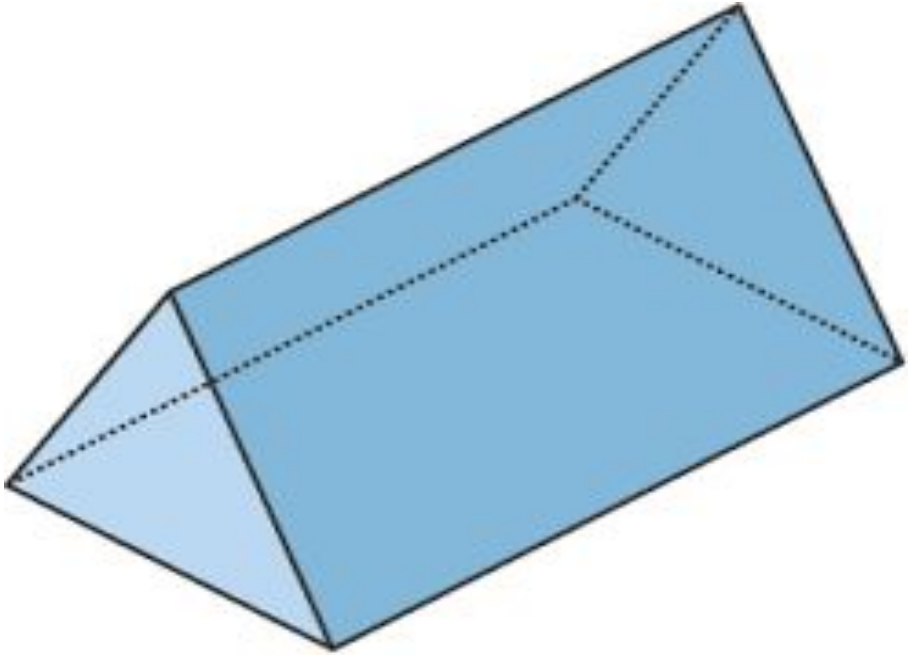


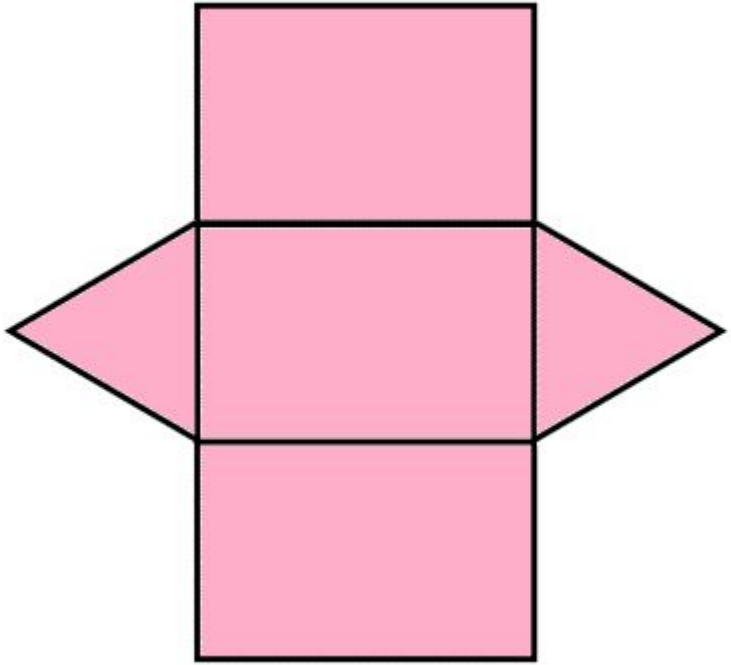


Triangular prism. How many faces have I got?

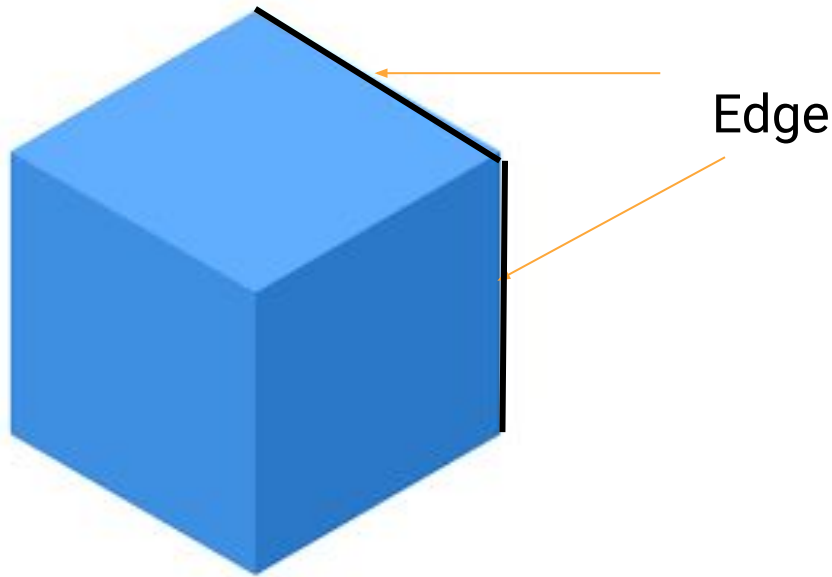


I have 5 faces. 2 triangles and 3 rectangles.



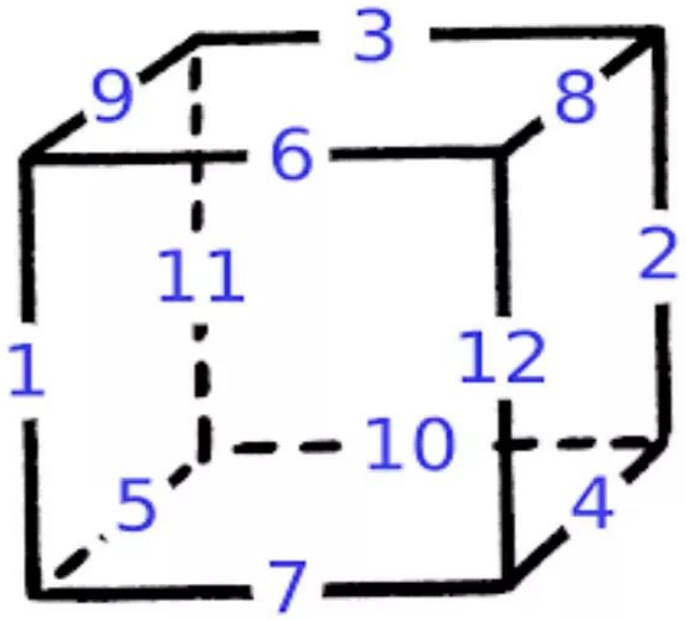


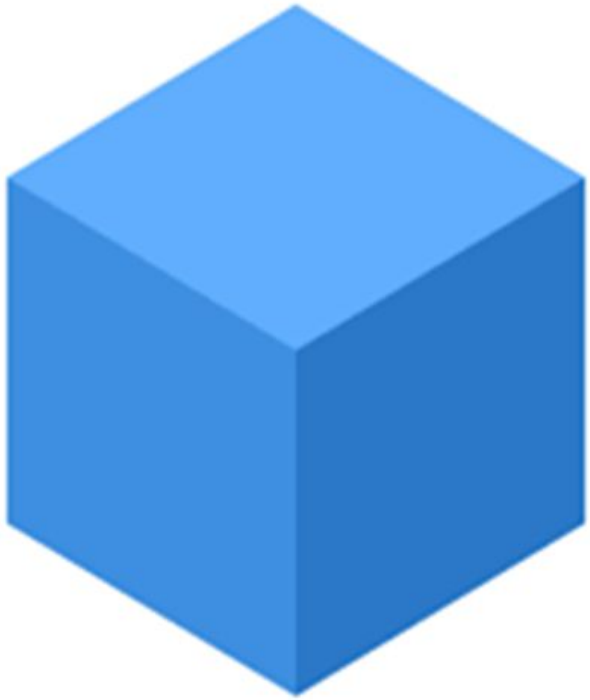
Properties of a 3D shape – you can count the number of edges it has.



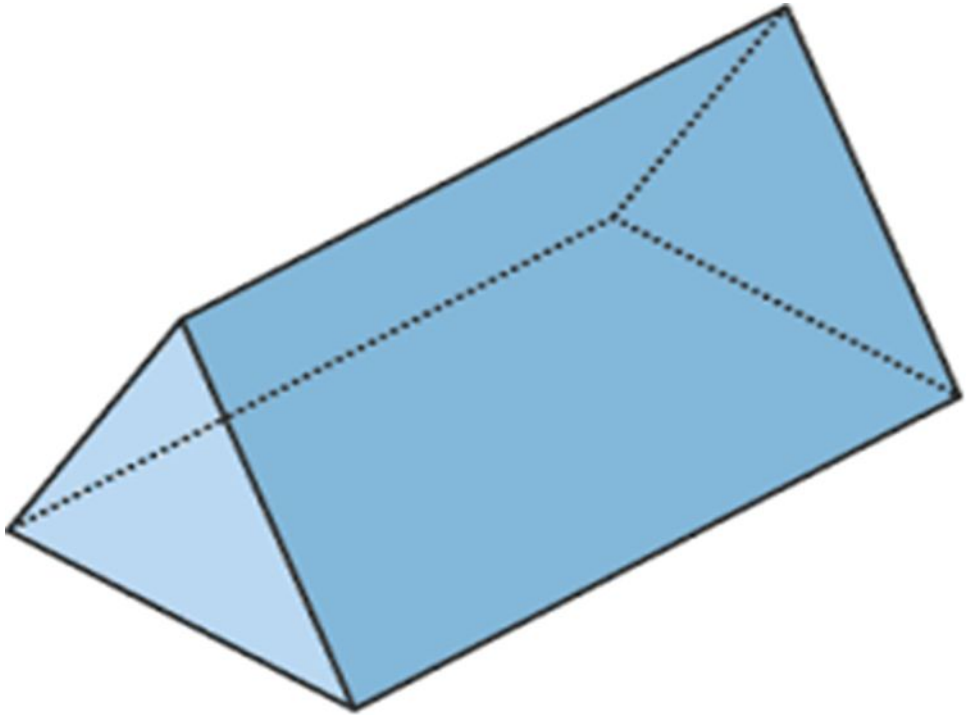
Properties of a 3D shape - edges

A cube has 12 edges.

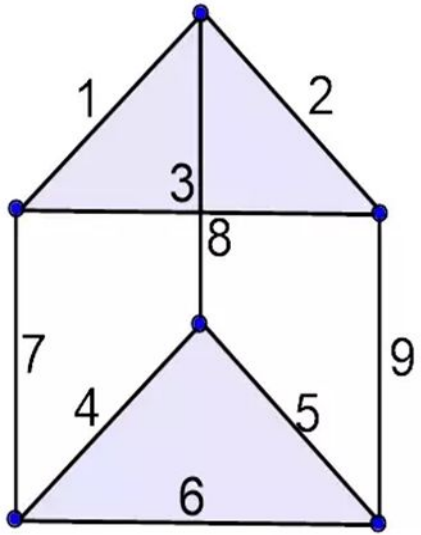




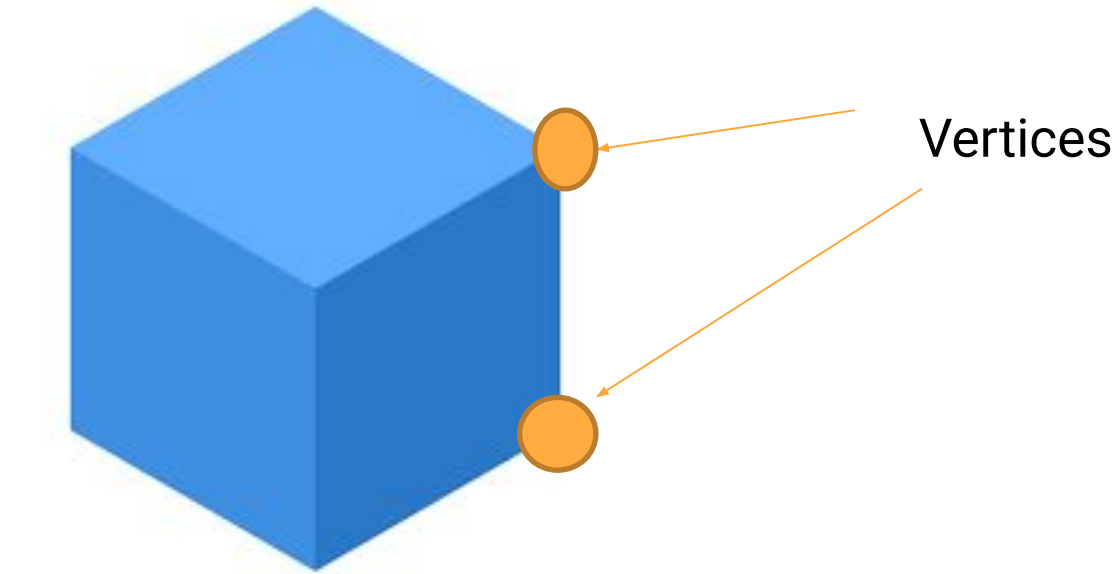
Triangular prism. How many edges have I got?



I have 9 edges.

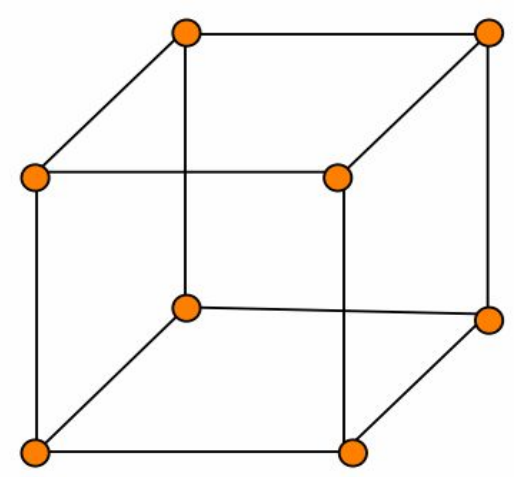


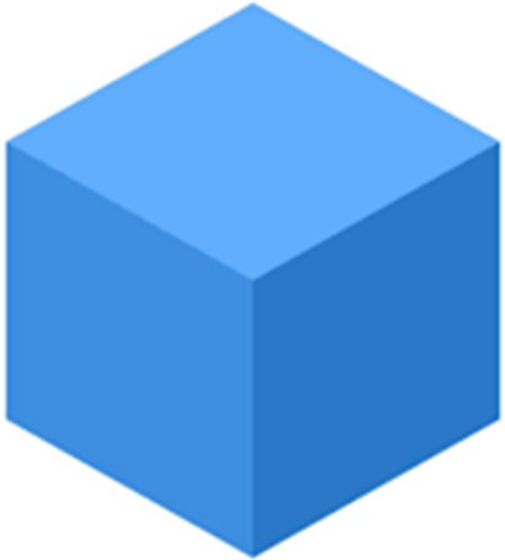
Properties of a 3D shape – you can count the number of vertices (corners)



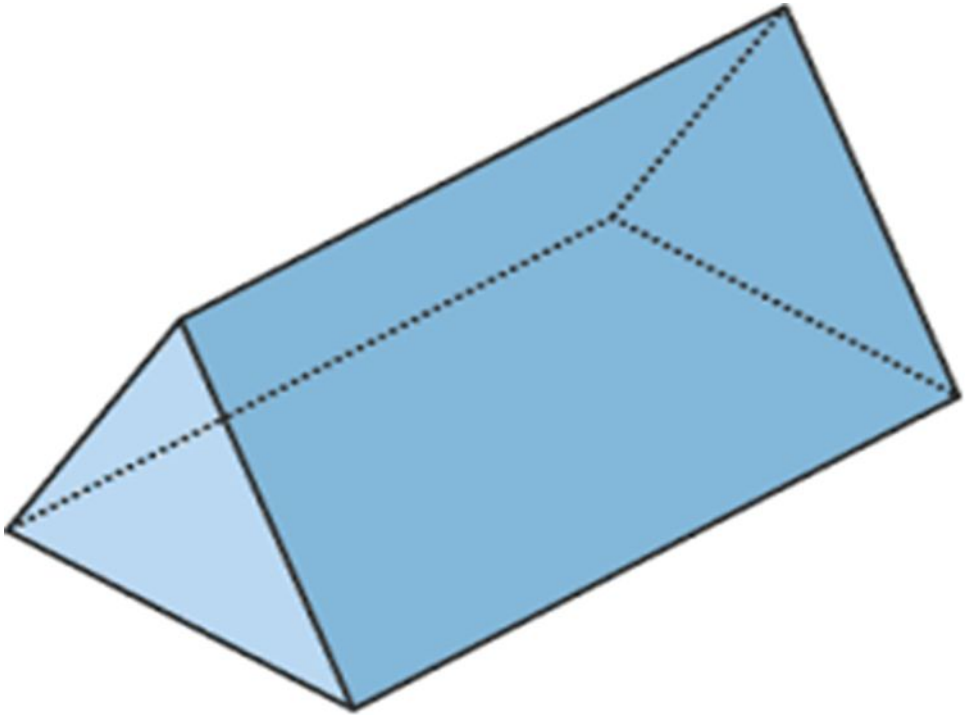
Properties of a 3D shape - vertices

Vertices – this is the number of corners it has. A cube has 8 vertices (corners).

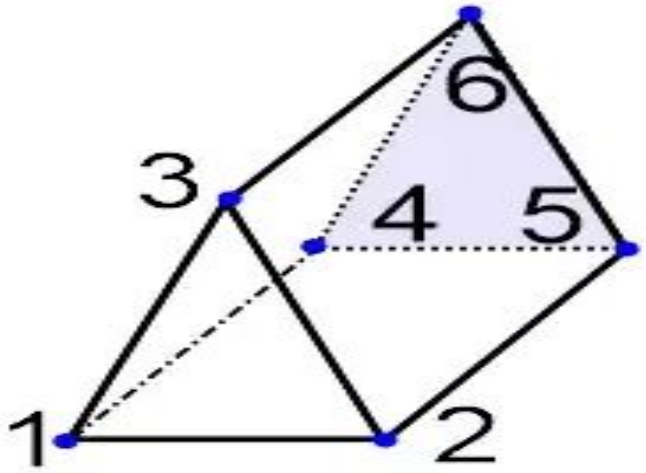




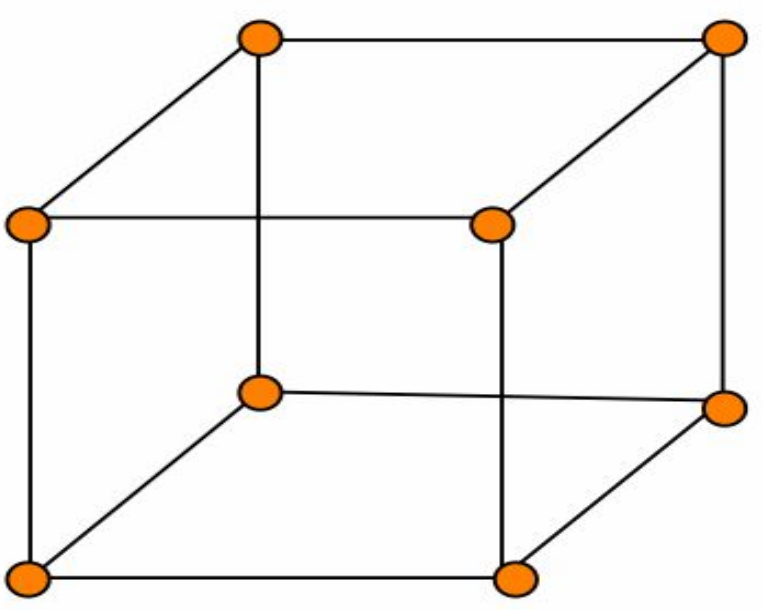
How many vertices have I got?



I have 6 vertices.



Describe this shape.



Shapes of faces =

Number of faces =

Number of edges =

Number of vertices =

I am a cube. I have square faces.