

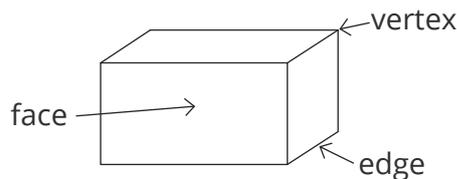
Properties of 3D shapes

3D shapes are **solid shapes**. These are the ones you need to know.

Cone	Sphere	Cuboid
Triangular Prism	Square-based Pyramid	Cube
Tetrahedron (triangle-based pyramid)	Cylinder	

There are different parts of 3D shapes you need to be able to spot. These are:

- **vertices** (corners/the points at which the edges meet – a single point is called a **vertex**)
- **faces** (the flat surfaces)
- **edges** (the line where two faces meet).

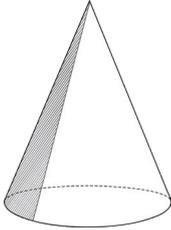


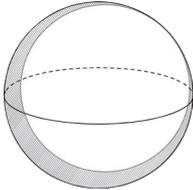
If you are asked to write down the number of faces, edges and vertices of the cuboid, then simply count them up – but don't forget the hidden ones!

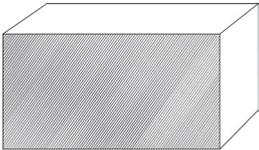
A cuboid has **6** faces, **8** vertices and **12** edges.

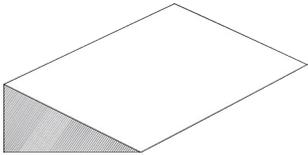
Your Turn

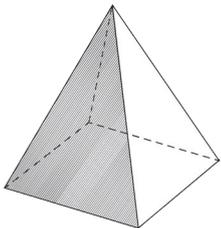
Complete the table for each 3D shape.

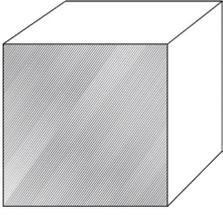
<p>Cone</p> 	<p>Vertices:</p> <hr/> <p>Edges:</p> <hr/> <p>Faces or Curved Faces:</p>
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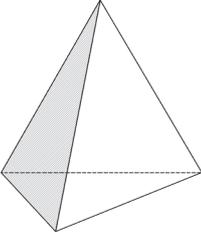
<p>Sphere</p> 	<p>Vertices:</p> <hr/> <p>Edges:</p> <hr/> <p>Faces or Curved Faces:</p>
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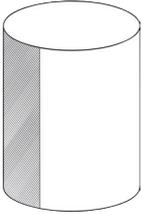
<p>Cuboid</p> 	<p>Vertices:</p> <hr/> <p>Edges:</p> <hr/> <p>Faces or Curved Faces:</p>
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<p>Triangular Prism</p> 	<p>Vertices:</p> <hr/> <p>Edges:</p> <hr/> <p>Faces or Curved Faces:</p>
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<p>Square-based Pyramid</p> 	<p>Vertices:</p> <hr/> <p>Edges:</p> <hr/> <p>Faces or Curved Faces:</p>
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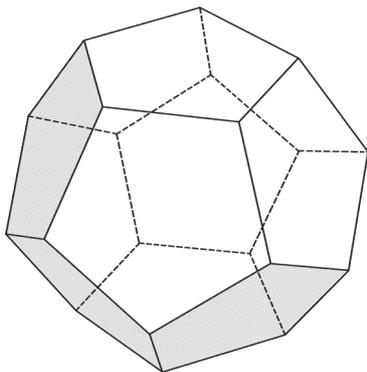
<p>Cube</p> 	Vertices:
	Edges:
	Faces or Curved Faces:

<p>Tetrahedron</p> 	Vertices:
	Edges:
	Faces or Curved Faces:

<p>Cylinder</p> 	Vertices:
	Edges:
	Faces or Curved Faces:

Challenge

A dodecahedron is made from 12 pentagons. Write down the number of faces, vertices and edges of a dodecahedron.



Vertices:
Edges:
Faces or Curved Faces: