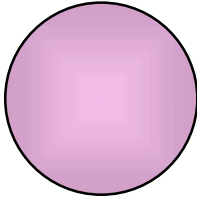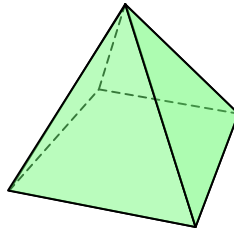## Three-dimensional shapes

Three-dimensional or **3D** shapes are sometimes called **solid** shapes. The mathematical name for shapes with straight edges and faces is **polyhedron.**
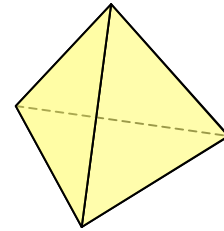
Some common 3D shapes include **cylinders**, **cubes** and **cuboids**. But there are many other shapes that you may come across in maths and in everyday life:
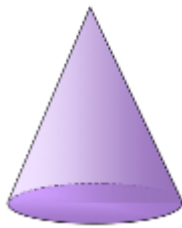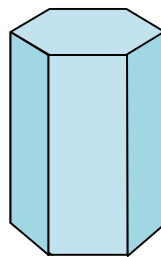
Sphere
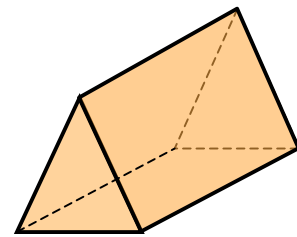A perfectly round solid.

Pyramid
Square based.

Pyramid
Triangular based pyramid or tetrahedron.
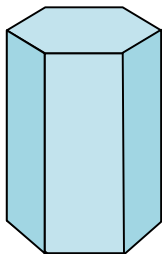
Cone
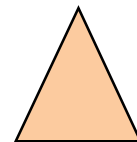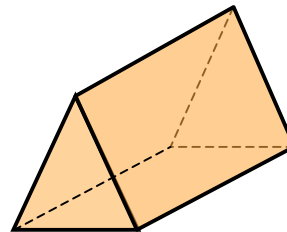A circular base.

Hexagonal prism

Triangular prism

Prisms have constant **cross sections** along the length so you could cut a slice anywhere in the shape and they would remain the same.

Hexagonal prisms have hexagons as cross sections.

Triangular prisms have triangles as cross sections.

Notice that pyramids do not have constant cross sections.