Mensuration

IGCSE Mathematics · Vocabulary in context

Word	Example
metric /ˈmetrɪk/	Metres and grams are **metric** units.
mass /mæs/	The **mass** of this bag of rice is 5 kg. 5 kg
length /leŋθ/	Measure the **length** of the table with a ruler.
area /ˈeərɪə/	The integral gives the **area** under the curve.
volume /ˈvɒljuːm/	The **volume** of the box is $2\text{ m} \times 1\text{ m} \times 1\text{ m} = 2\text{ m}^3$. $2\text{ m} \times 1\text{ m} \times 1\text{ m} = 2\text{ m}^3$
capacity /kəˈpæsɪti/	The jug has a **capacity** of 2 litres. 2
perimeter /pəˈrɪmɪtə/	The **perimeter** is the distance around a shape.
base /beɪs/	The **base** of the triangle is 6 cm. 6 cm
height /haɪt/	The **height** of the triangle is 4 cm. 4 cm
rectangle /ˈrektæŋgl/	The average value is the height of a **rectangle** with the same area.
triangle /ˈtraɪæŋgl/	The angles in a **triangle** add to 180°. 180°
parallelogram /ˌpærəˈleləgræm/	A **parallelogram** has two pairs of parallel sides.
trapezium /trəˈpiːzɪəm/	Split the area under the graph into a **trapezium** and a triangle.
circle /ˈsɜːkl/	Every point on a **circle** is equally far from its centre.

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radius /ˈreɪdɪəs/	The **radius** of a circle is the distance from the centre to the edge.
diameter /daɪˈæmɪtə/	Measure the **diameter** of the wire with a micrometer.
circumference /sɜːˈkʌmfrəns/	The **circumference** is the distance around a circle.
arc /ɑːk/	The **arc** is part of the edge of a circle.
sector /ˈsektə/	A **sector** is a slice of a circle, like a piece of pizza.
minor sector /ˈmaɪnə ˈsektə/	A **minor sector** is the smaller slice of a circle.
major sector /ˈmeɪdʒə ˈsektə/	A **major sector** is the larger slice of a circle.
arc length /ɑːk leŋθ/	Measure the **arc length** along the curved edge.
segment /ˈsegmənt/	A **segment** is the part of a circle cut off by a chord.
surface area /ˈsɜːfɪs ˈeərɪə/	The **surface area** of a cube is six times the area of one face.
cuboid /ˈkjuːbɔɪd/	A **cuboid** is shaped like a box.
prism /ˈprɪzəm/	A **prism** has the same cross-section all the way through.
cross-section /krɒs ˈsekʃn/	The **cross-section** of a prism is the same all along it.
cylinder /ˈsɪlɪndə/	A tin can is a **cylinder**.
curved surface area /kɜːvd ˈsɜːfɪs ˈeərɪə/	The **curved surface area** of a cylinder is $2\pi rh$. $2\pi rh$

Word	Example
 **pyramid** /ˈpɪrəmɪd/	A **pyramid** has a base and triangular sides meeting at a point.
 **cone** /kəʊn/	An ice cream cone is a **cone**.
 **slant height** /slænt haɪt/	The **slant height** of a cone runs from the tip to the edge of the base.
 **sphere** /sfɪə/	A ball is a **sphere**.
 **compound shape** /ˈkɒmpaʊnd ʃeɪp/	A **compound shape** is made of simpler shapes.
 **hemisphere** /ˈhemɪsfɪə/	A **hemisphere** is half of a sphere.
 **frustum** /ˈfrʌstəm/	A **frustum** is a cone with its top cut off.

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