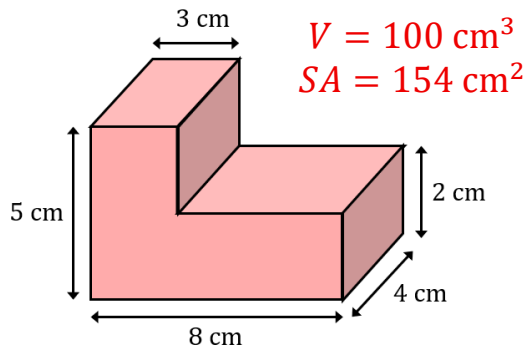


Volume and Surface Area of Compound Shapes

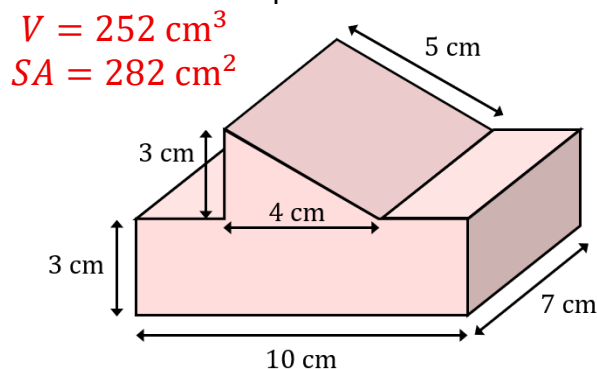
(a)

Find the volume and surface area of the 3D shape shown.



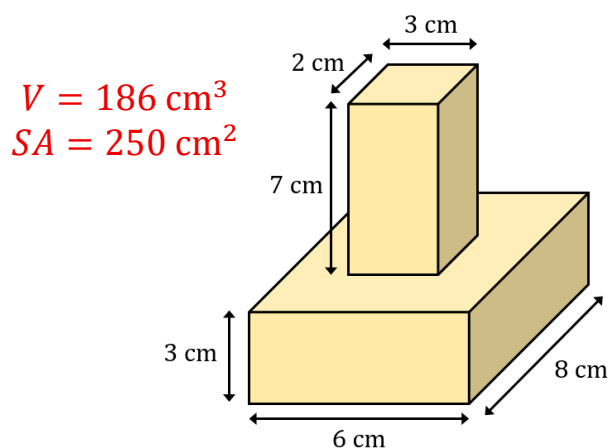
(b)

Find the volume and surface area of the 3D shape shown.



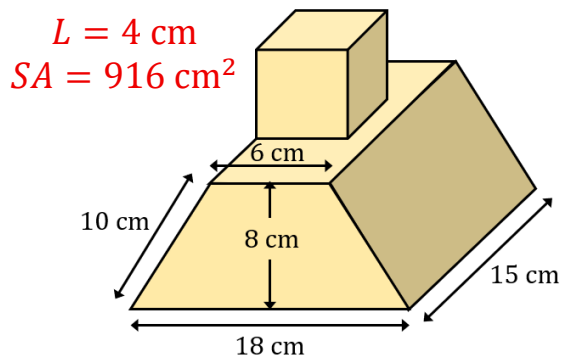
(c)

A compound shape is made up of two cuboids. Find the volume and surface area of the compound shape.



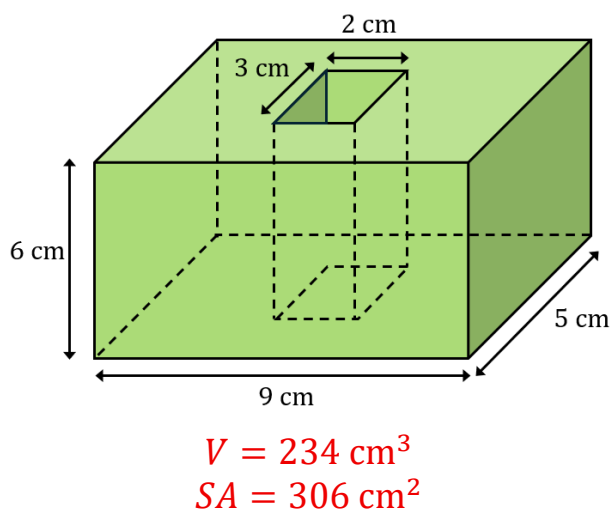
(d)

A compound shape is made up of a cube and a trapezoidal prism. The total volume of the shape is 1504 cm^3 . Find the side length of the cube and the surface area of the compound shape.



(e)

A 3D shape is made by cutting a cuboid out of another cuboid. Find the volume and surface area of the resulting shape.



(f)

A triangular prism is cut from a cube. The triangular prism has a cross section which is an equilateral triangle of side length 5 cm. Find the volume and surface area of the resulting shape.

