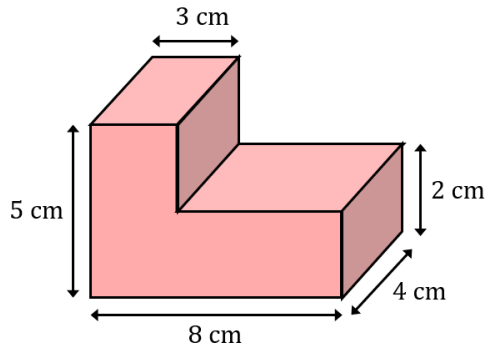


## Volume and Surface Area of Compound Shapes

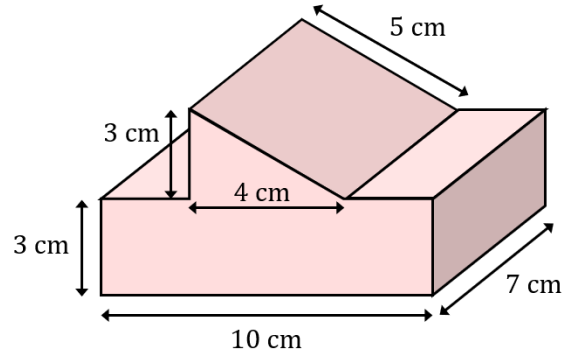
**(a)**

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



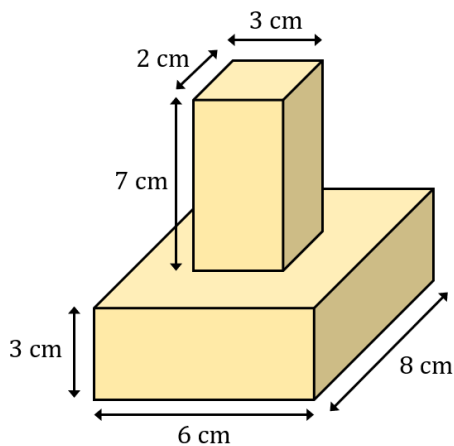
**(b)**

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



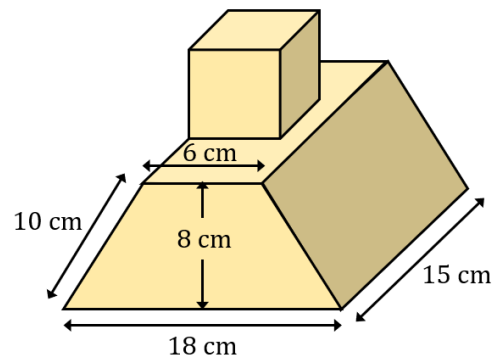
**(c)**

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



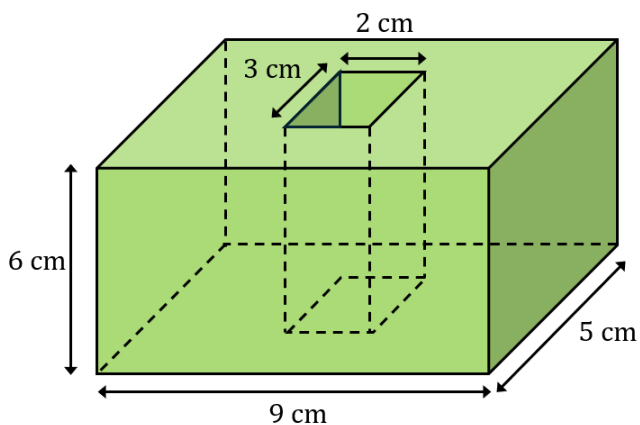
**(d)**

A compound shape is made up of a cube and a trapezoidal prism. The total volume of the shape is  $1504 \text{ cm}^3$ . 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.

