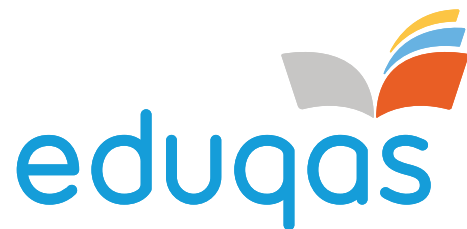


Density and Pressure

GCSE Mathematics

FR1/2/12 HR1/2/12



1. Find the pressure in N/m^2 , exerted by an object with a contact area of 6.5m^2 and a force of 520N .
2. The pressure created by an object with a contact area of 5.4m^2 is 62N/m^2 .
Find the force in Newtons.
3. A block of metal has density 12.4g/cm^3 . If the block weighs 1.116kg find its volume in cm^3 .
4. A man with weight 750N stands upright (on both feet) and exerts a pressure of 15000N/m^2 on a plank of wood. Find the contact area of one foot in cm^2 .
5. A cylinder with a diameter equal to its height weighs 425g . Knowing that its density is 2.5g/cm^3 find the height of the cylinder.