

2500kgm<sup>-3</sup>

[PHY101] The quantity of matter in a body gives \_\_\_\_\_  
mass

[PHY101] A density bottle has a mass of 12.3g when empty, 14.8g when filled with water and 31.1g when filled with turpentine. What is the density of turpentine?  
0.88g/cm<sup>3</sup>

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888g/cm<sup>3</sup>

[PHY101] A cubical block of concrete edge 0.25m, rest on a horizontal surface. If its weights 300N, what pressure does it exertion the surface?  
7.5x10<sup>5</sup>pa

[PHY101] \_\_\_\_\_ is the frictional force in fluids  
viscosity

[PHY101] What is the density of a mixture of 1.5m<sup>3</sup> of water and 0.5m<sup>3</sup> of alcohol of density 800kg/m<sup>3</sup>? (Density of water = 1000kgm<sup>-3</sup> )  
950kg/m<sup>3</sup>

[PHY101] The r.m.s velocity of oxygen molesules is 400ms<sup>-1</sup> at 00c. Calculate its r.m.s velocity at 1000c  
468m/s

[PHY101] A boat of mass 650kg floats on water, what volume of water does it displace?  
0.650m<sup>3</sup>

[PHY101] The surface of area of a small piston a is 0.01m<sup>2</sup>, the surface area of the big piston A is 0.1m<sup>2</sup> and the effort is 150N, calculate the magniude of the load F  
10N

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