**The National Orthodox School /Shmaisani**

**Subject: Science/ Physics**

**Name: Title: Pressure Worksheet**

**Date: Grade-Section: 8- ……CS**

Question 1) A block of weight 850N has a length of 0.5 m and a width of 0.4 m and a height of 0.3 m.

* Find the smallest pressure that this block exerts on the ground.

0.4 x 0.5 = 0.2  
P=F/A > 820/0.2 = 4250 N/m^2

* Find the largest pressure that this block exerts on the ground.

0.4 x 0.3 = 0.12  
P=F/A > 820/0.2 = 6833.33 N/m^2

Question 2) The force applied to a 0.4 cm by 0.8 cm brake pad produces a pressure of 500 N/cm². Calculate the force applied to the brake pad.  
  
0.4 x 0.8 = 0.32  
F=A x P > 0.32 x 500 = 160N