**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.

P = Force over area LA= 0.3

= 850N divided by 0.3 = 2833.3

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

P = Force over area HA= 0.5

= 850N divided by 0.5= 1700

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 times 0.8 = 0.32

500N/cm2 times 0.32 = 160N