**The National Orthodox School /Shmaisani**

**Subject: Science/ Physics**

**Name: tala Title: Pressure Worksheet**

**Date: Grade-Section: 8-D…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.

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

Pmin= F/Amax= 850/0.4x0.5= 850/0.2= 4,250N/㎡.

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

Pmax= F/Amin= 850/0.3x0.5= 850/0.12= 7,083.3˙N/㎡.

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.

F= PxA= 500x(0.4x0.8)= 500x0.32= 160N.