**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.

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

W=850N

P=F/A = 850/0.5\*0.4 = 850/0.2

P=4250pa

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

P=F/A = 850/0.3\*0.4 =850/O.12

P= 7083.33pa

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.

P=500N/cm

F=? F=P\*A

 =500\*0.4\*0.8

 F =160 N