**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.

Pmin=F / Amax

Pmin=850/0.5x0.4

Pmin=850/0.2

Pmin=4250N/m²

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

Pmax=F/Amin

Pmax=850/0.4x0.3

Pmax=850/0.12

Pmax=7083.3(recurring)

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

F=500x0.4x0.8

F=500x0.32

F=160N