**The National Orthodox School /Shmaisani**

**Subject: Science/ Physics**

**Name: faris madanat 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.

0.5x0.4=0.2

Pressure equals force/area

P=850 /0.2

=4250N/m2

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

0.4x0.3=0.12

Pressure=force/area

Pressure=850/0.12 =7083

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.

Area= Length x width =0.4x0.8=0.32

Force= Pressure x Area = 500x0.32=160N