**The National Orthodox School /Shmaisani**

**Subject: Science/ Physics**

**Name: Angelina sahouri Title: Pressure Worksheet**

**Date: 19/9 Grade-Section: 8-H**

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.

A=0.5x0.4=0.2

P=f/a

850/0.2=4250 N/m2

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

A=0.3x0.4=0.12

P=f/a

850/0.12=7083.33N/m2

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.

A=lxw

 =0.4x0.8 = 0.32

p=f x a

 = 500 x 0.32

 = 160 N