**The National Orthodox School /Shmaisani**

**Subject: Science/ Physics**

**Name: Jad Gammoh Title: Pressure Worksheet**

**Date: 19-9-20200 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.

Smallest pressure = force = 850N = 850 = 425 N/m2

Largest Area 0.5\*0.4 0.20

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

Largest pressure = force = 850N = 850 7.083 N/m2

smallest Area 0.3\*0.4 0.12

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.

Pressure = Force

Area

500 = Force = 500 \* 0.32 = 160 N

0.4\*0.8