**The National Orthodox School /Shmaisani**

**Subject: Science/ Physics**

**Name: Haya Title: Pressure Worksheet**

**Date: 16/9/2022 Grade-Section: 8H**

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.

850 / (0.5\*0.4) = 4250 N/m2

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

850 / (03\*0.4) = 7083.33 N/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.

F= 500\* 0.4 \* 0.8= 160 N/cm2