**The National Orthodox School /Shmaisani**

**Subject: Science/ Physics**

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**Date: September 16 2022 Grade-Section: 8- H 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.

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

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

850/ (0.3\*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