**The National Orthodox School /Shmaisani**

**Subject: Science/ Physics**

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**Date: 20 /9/2022 Grade-Section: 8- F 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.

Amax =0.5x0.4= 0.20m pmin= F = 850 =4250

 Amax 0.20

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

Pmax=F =850 850 =7083 n/m2

 Amin 0.3x0.4 = 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

0.4x0.8=0.32 F=P x A

 500 X 0.32 =160 N/CM2