**The National Orthodox School /Shmaisani**

**Subject: Science/ Physics**

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**Date:20-9-2022 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.

P=f/a

850/0.5x0.4=0.2

850/0.2=4250N/m**²**

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

P=f/a

850/0.4x0.3=0.12

850/12=7083.33N/m**²**

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=pxa

F=(0.4x0.8)x500

F=160NS