**The National Orthodox School /Shmaisani**

**Subject: Science/ Physics**

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**Date: Grade-Section: 8- …c**

**…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= force over max area 0.2=4250 Pa

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

P= force over min area 0.12 over 850 = 7083.33 Pa

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.

 P= F/A

500=F/0.32

F= 500\*0.32

F= 160 N