The National Orthodox School Shmaisani

Subject: Science/ Physics

Isaiah

Title: Pressure Worksheet

Date: 16/9/2022

Name:

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.

a) Find the smallest pressure that this block exerts on the ground.

Pmin=F/Amax=850/0.5x0.4=850/0.2= 4,250 N/M²

b) Find the largest pressure that this block exerts on the ground.

Pmax=F/Amin=850/0.4x0.3=850/0.12= 7,083.33 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=PxA=500x(0.4x0.8)=500x0.32= <u>160 N</u>









