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.

0.5 x 0.4= 0.2m(squared)

850 divided by 0.2= 450N/m(squared)

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

0.3 x 0.4= 0.12m(squared)

850 divided by 0.12=7083N/m(squared)

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.

0.4 x 0.8= 0.32cm(squared)

Force= pressure x area

=500x 0.32= 160N/cm(squared)