

# Pressure Worksheet.

1. Find the pressure exerted on the floor by a 100 N box whose bottom area is 40 cm by 50 cm. (use Pa for units)
2. Find the pressure exerted by a waterbed with dimensions of 2 m x 2 m which is 30 cm thick. (hint: use density of water)
3. Find the pressure exerted on the ground (in psi) by a 250 lb person who is sitting on a chair whose 4 legs touch the ground with an area of 1" by 2" each.
4. Find the pressure exerted on a 6 ft x 10 ft wall by the atmosphere, if Atmospheric pressure is 14.7 psi.
5. Find the pressure exerted by the atmosphere on a car window which is 30 cm tall and 40 cm wide if atmospheric pressure is 101,000 Pa. (Remember that a Pa = N/m<sup>2</sup>)