

1. A box has a weight of 120 N, and its lower surface has a length of 3.00 m and a width of 5.00 m. What is the pressure exerted by the box on the floor?
2. A bronze statue weighs 2400 N and has a base that is 4.00 m by 0.500 m. What is the pressure exerted by the statue on the floor?
3. A cubical box weighs 360 N.
 - a) If each dimension of the box is 3.00 m, what is the pressure exerted by the box on the surface beneath it?
 - b) If the pressure were four times smaller and the weight of the box were the same, then what would be the length of each dimension of the cube instead?
4. What would a car weigh if its tires each had a surface area of 1.00 m^2 and each tire exerted a pressure of 800 Pa?