

Instructions: Complete your workings on loose-leaf. Show **ALL** workings and don't forget your units!

1. Martin's pen is dropped to the floor and landed across his toe. If the area it covers is 0.03m^2 and the force of the pen is 4N , what amount of pressure is his toe feeling?
2. A bronze statue weighs 2400 N and has a base that is 4 m by 0.5 m . What is the pressure the statue exerts on the floor?
3. A box has a weight of 120 N and the bottom of the box is 1.2 m^2 . What is the pressure the box exerts on the floor?
4. A man weighing 800N walks on the sand in his flip-flops (total area 0.3 m^2). What pressure does he generate?
5. If the area of the bottom of Carlys foot is 0.2m^2 , and the pressure on her jogger is 2200Pa , what force is traveling down her leg?

