Student Name a Date a

Calculating Pressure (in N/m2)

1. A box is putting a force of 100 N on a tabletop. Find the pressure being put on the table if the bottom side has an area of 2.5 m2.
2. A triangular pyramid is putting a force of 45 N on the floor. Find the pressure being put on the floor if the bottom triangular side of the pyramid has a base of 0.5 m and a height of 3 m.
3. A statue with a parallelogram shaped base and is putting a force of 5,500 N on the ground. Find the pressure being put on the ground if the parallelogram has a base of 6 m and a height of 5 m.
4. A cylinder shaped water tower is putting a force of 3,500,000 N on the ground. Find the pressure being put on the ground if the circular base of the tower has a radius of 30 m.