**Ramps Practice**

4) Nate, m = 62 kg, is sledding down a 15° hill, the coefficient of friction between the sled and the hill is, µ = 0.17. Calculate his acceleration.

3) Cassie is pushing Julia and a sled (m = 62.5 kg) up a 35° hill, the coefficient of friction between the sled and the hill is, µ = 0.47. Calculate the force Cassie would need to push with for Julia to go up the hill at a constant speed.

2) A 5.1 kg box is placed at rest at the top of an inclined plane at a 38° above the horizon. The diagonal length of the ramp is L = 1.3 m, and the coefficient of friction between the box and ramp is 0.27. Calculate the time it takes to slide to the bottom