**Work Worksheet #1** Name:

1. What is the work required to move a 10000 kg train car a distance of 200 m?

2. How far must a 650N (m = 66.25891947kg) student fall before the force of gravity has done 7000 J ofwork?

3. With how much force must Bad Bart exert in order to do 1000 Joules of work while

moving his cart of laundry 50 m from one side of the prison laundry room to the

other?

4. If three bears apply a total of 1000 N in order to slide the desk 20 m across the room, what is the work done by the bears?

5. Julie must move 200 file boxes from the floor up to a table which stands 1.2 m high.

If she lifts one box at a time, how much work does she do after stacking the boxes on

the table one box deep? How much work would she have to do if she stacked them in

layers of 10 boxes by 5 boxes (each box has a mass of 20 kg)?

6. How much work is done by gravity in settling a 25000 kg house by 3.0 cm?

7. How much work is done on a sturdy concrete wall by a man who pushes with a force

of 450 N for 24 hours on the wall?