## **Phys101 Assignment Cover Sheet**

First Name:	Last Name:	Mark:
Student ID:	Date:	

## **Phys101 Written Assignment #3**

Due Wed/Thur. Jan 16/27, 2011, at the end of tutorial

Textbook (Giancoli, 6th edition) page 104 problem #76.

76. A 28.0-kg block is connected to an empty 1.35-kg bucket by a cord running over a frictionless pulley. The coefficient of static friction between the table and the block is 0.450 and the coefficient of kinetic friction between the table and the block is 0.320. Sand is gradually added to the bucket until the system just begins to move. (a) Calculate the mass of sand added to the bucket. (b) Calculate the acceleration of the system.





