Physics F14 MT2 retake, question #1, Nov. 17, 2014 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1.  (10 pts) I set the system of masses at right from rest. The string and pulley are massless and frictionless, but there is a coefficient of friction between the 2 kg object and the (level) surface of 0.2.
2. After reading the questions, please state which of the 4 concepts are central to your solving this problem and why.
3. What is the acceleration of the system?

a = \_\_\_\_\_\_\_\_

1. What is the tension of the string?

T = \_\_\_\_\_\_\_\_

1. Your Statements:
2. Please write and sign the following statement: “I have not received any information about this test.”

*Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

1. If you didn’t use a calculator for this test and would like extra credit for it, please write and sign the following statement: “I didn’t use a calculator on this test - *your signature*”

*Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*