**Name:**  **Total: /11**

**Question 1**

Is acceleration downslope independent of mass?

**Small glider**

**Given Calculations**

**tu = u =**

**tv = v =**

**t between = a =**

**(3)**

**More massive glider**

**Given Calculations**

**tu = u =**

**tv = v =**

**t between**

**photogates = a =**

**(3)**

**Answer:**

(**1)**

**Question 2**

Calculate the theoretical acceleration downslope and then determine the % difference between the theoretical acceleration downslope and the experimental acceleration downslope for the small glider.

**(4)**