

4.3 Lab Data - Friction

Use this data set if you missed the lab. Note in your booklet that you are borrowing this data set.

Mission 1 – Static Friction

Mass 1: 1500 g

Mass 2: 2500 g

Mass 3: 3500 g

Tension 1: 6.2 N

Tension 2: 10.2 N

Tension 3: 14.6 N

Mission 2 – Kinetic Friction

Mass 1: 1500 g

Mass 2: 2500 g

Mass 3: 3500 g

Tension 1: 4.4 N

Tension 2: 7.1 N

Tension 3: 9.9 N

Questions:

1. Same as in your booklet.
2. Would you expect the coefficients of friction to change if the surface area of the sliding plate were changed? Explain your response fully.