

## Friction analysis (35 pts)

### I. Two methods to determine the coefficient of static friction

#### Method one:

- data table with at least five trials (5 pts)
- average value for the static coefficient estimate (1 pt)
- a few sentences describing the method used (4 pts)

#### Method two:

- data table with at least five trials (5 pts)
- average value for the static coefficient estimate (1 pt)
- a few sentences describing the method used (4 pts)

### II. One method to determine the coefficient of kinetic friction

- A data table with at least five trials (5 pts)
- An average value for the kinetic coefficient estimate (1 pt)
- A few sentences describing the method used. (4 pts)
- The derivation for  $\mu_k$  (5 pts)