

# Homework assignment 1

KINESIOL 1E03 - Motor control and learning

**Due date: Sept 17 2021 by 23:59 EST**

## Questions

1. When it comes to measurement, three important concepts are *objectivity*, *sensitivity*, *reliability*, and *validity*. Define each of these terms (1 sentence per definition). **[4 marks]**
2. Using the data below, what is each person's:
  - a) mean constant error? **[1 mark]**
  - b) mean absolute error? **[1 mark]**
  - c) mean variable error? **[1 mark]**
  - d) mean absolute constant error? **[1 mark]**

Trial	Person	Goal time	Response time
1	Adams	933	713.23
2	Adams	933	749.49
3	Adams	933	776.29
4	Adams	933	887.55
5	Adams	933	926.85
1	Henry	933	1076.74
2	Henry	933	857.96
3	Henry	933	1047.29
4	Henry	933	994.48
5	Henry	933	985.33

3. Can a person's constant error ever be greater in magnitude than their absolute error? In your answer be sure to explain why or why not? **[2 marks]**

## Submission guidelines

Your answers to the homework assignment questions should be typed and submitted via Avenue as a **PDF** file. Late assignments will be penalized 20% per day.

The file you submit must include your last name, first initial, and student ID using the following format: a1\_last-initial\_ID.pdf. For instance, I would submit an assignment named: a1\_carter-m\_3351871.pdf. Files submitted in the wrong format (e.g., Microsoft Word's .docx) **will not be marked**.

Be sure to submit your file to the correct folder. Files submitted to the wrong folder **will not be marked**. If you need to resubmit your file to the correct folder after the due date, it will be considered late.