

**SPU 26 Assignment 2** (turned in at lecture, Monday, Sept. 24<sup>th</sup>)

Your name: \_\_\_\_\_

Section time: \_\_\_\_\_

TF: \_\_\_\_\_

**Hand Measurements**

Using the chart on the blackboard, measure the angular width of the following finger configurations with your arm outstretched and enter the results below in both degrees and radians.

	Degrees	Radians
One finger	_____	_____
Two fingers	_____	_____
Three fingers	_____	_____
Four fingers	_____	_____
Outstretched pinky to thumb	_____	_____
Fist	_____	_____

**Body measurements** This is from memory, or measured if necessary. Please report height in feet, inches, inseam in inches.

Height \_\_\_\_\_ Inseam \_\_\_\_\_

**Pace measurements** This from the course of 100 feet. Take four trials, TF's can help you calculate the results. Find the mean and standard deviation and uncertainty on the mean.

	Speed (mph)	Paces per mile	Turnover (paces/min)
Trial 1	_____	_____	_____
Trial 2	_____	_____	_____
Trial 3	_____	_____	_____
Trial 4	_____	_____	_____
Mean	_____	_____	_____
Standard dev.	_____	_____	_____
Uncertainty	_____	_____	_____

**Class information** From the class data published, and available on Saturday, use the spreadsheet functions to find and report the following information:

Mean speed (mph) \_\_\_\_\_ Std. dev. \_\_\_\_\_ Unc. in mean \_\_\_\_\_

Mean paces/mile \_\_\_\_\_ Std. dev. \_\_\_\_\_ Unc. in mean \_\_\_\_\_

Mean turnover \_\_\_\_\_ Std. dev. \_\_\_\_\_ Unc. in mean \_\_\_\_\_

Pace length(ft) \_\_\_\_\_ Std. dev. \_\_\_\_\_ Unc. in mean \_\_\_\_\_

Pace length (ft) = (5280 feet/mile\*1/(paces/mile))

Correlation coefficient of speed and pace length, correlation coefficient of speed and inseam.

Correl. of speed and pace length \_\_\_\_\_

Correl. of speed and inseam \_\_\_\_\_

**SPU 26 Assignment 2** (keep for your own records)

Your name: \_\_\_\_\_

Section time: \_\_\_\_\_

TF: \_\_\_\_\_

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Trial 3	_____	_____	_____
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Mean	_____	_____	_____
Standard dev.	_____	_____	_____
Uncertainty	_____	_____	_____

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Mean paces/mile \_\_\_\_\_ Std. dev. \_\_\_\_\_ Unc. in mean \_\_\_\_\_

Mean turnover \_\_\_\_\_ Std. dev. \_\_\_\_\_ Unc. in mean \_\_\_\_\_

Correlation coefficient of speed and pace length, correlation coefficient of speed and inseam.

Correl. of speed and pace length \_\_\_\_\_

Correl. of speed and inseam \_\_\_\_\_

