Study 2.2 # 3, 17 or 19, 23

accept approximate answers

Appendix B, p. 638 - 641

Class Notes: Prof. G. Battaly, Westchester Community College, NY

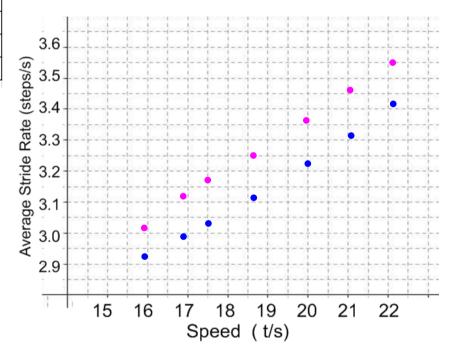




	Ave Stride Rate (steps/s)	
Speed (ft/s)	Women	Men
15.86	3.05	2.92
16.88	3.12	2.98
17.5	3.17	3.03
18.62	3.25	3.11
19.97	3.36	3.22
21.06	3.46	3.31
22.11	3.55	3.41

$$y = ax + b$$

 $a = 0.080$
 $b = 1.766$
 $y = 0.08x + 1.77$



Class Notes: Prof. G. Battaly, Westchester Community College, NY

College Algebra Home Page

Homework Problems

on Calculator:

Enter Data

1. Use STAT/EDIT to enter data into L1, L2, and L3

Plot Women's Data

- 1. Use 2nd Y= to get to Stat Plot 1
- 2. Turn ON, then select 1st Type, which is a scattergram
- 3. Enter L1 for xlist and L2 for ylist

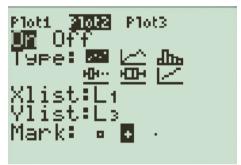
Plot Men's Data

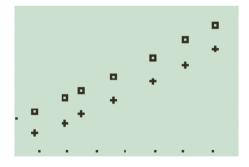
- 1. Arrow up and select Stat Plot 2
- 2. Turn ON, then select 1st Type, which is a scattergram
- 3. Enter L1 for xlist and L3 for ylist

Graph the scattergrams ZOOM/ STAT

(this selects the correct axes)







Class Notes: Prof. G. Battaly, Westchester Community College, NY

College Algebra Home Page

Homework Problems

Find Regression Equation (best fit line)

- 1. STAT/ CALC
- 2. Select: 4:LinReg(ax+b)
- 3. After LinReg(ax+b), use 2_{nd} 1, the comma key, and 2_{nd} 2 to get L1,L2 to get:

LinReg(ax+b) L1,L2

The slope, a, and intercept, b, is calculated.

Repeat the above steps, using L1 and L3 to find the regression line for the Men's Data.

Plot Regression Line with Scattergram Either

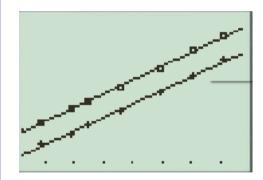
Enter the regression equations into Y1 yourself.

Or

At step 3 above enter Y1 after the L1 and L2: LinReg(ax+b) L1, L2, Y1

To get Y1 entered:

Select VARS/Y-VARS/1:Function/1:Y1
Repeat the above steps, using L1 and L3 and Y2 to plot the regression line for the Men



Graph the scattergrams ZOOM/ STAT

Class Notes: Prof. G. Battaly, Westchester Community College, NY

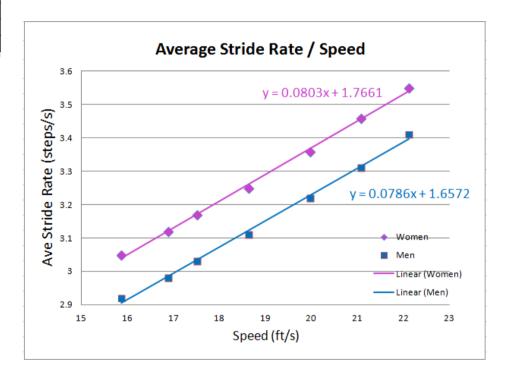
College Algebra Home Page

Homework Problems

© G. Battaly, 2013

	Ave Stride Rate (steps/s)	
Speed (ft/s)	Women	Men
15.86	3.05	2.92
16.88	3.12	2.98
17.5	3.17	3.03
18.62	3.25	3.11
19.97	3.36	3.22
21.06	3.46	3.31
22.11	3.55	3.41
19.97 21.06	3.36 3.46	3.22 3.31

in Excel:



Class Notes: Prof. G. Battaly, Westchester Community College, NY

College Algebra Home Page

Homework Problems

