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SIMPLE LINEAR REGRESSION WORKSHEET

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Regression Line is  $Y =$

Correlation Coefficient (r) is .....

r-squared is .....

Significance Test of Regression:  
(Testing the hypothesis that the slope is zero.)

Student's t-statistic .....

Number of Degrees of Freedom .....

Intermediate Results Area

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Number of Observations .....

Mean Value of X .....

Mean Value of Y .....

Mean Value of (X\*Y) .....

Corrected Sum of Squares of X .....

Corrected Sum of Squares of Y .....

Corrected Sum of Cross-Products (X\*Y) .....

Variance of X .....

Variance of Y .....

Unexplained Variance of Y, Given X .....

Standard Deviation of Y, Given X .....

Standard Deviation of Slope (b) .....

DATA INPUT AREA

Enter Pairs of Values Below

Observation

Number

Y-Value

=====  
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#NAME? + X \* #NAME?

#DIV/0!

#DIV/0!

#NAME?

0

0

#DIV/0!

#DIV/0!

#NAME?

#DIV/0!

#DIV/0!

#NAME?

#NAME?

#NAME?

#NAME?

#NAME?

#NAME?

X-Value Y-Estimate Y\*X

#NAME? #NAME?

\0: \B:  
/dfobsnos~1~  
/ruinputarea~/wgpe  
{home}/xmmenu~

MENU:  
Input  
Input Data  
/xminptmenu~

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BLANK:  
No  
Leave Data Intact. Return to Menu.  
/xmmenu~

INPTMENU:  
XYPairs  
Enter Data in X-Y Pairs (X First)  
/ruinstr~/cinputinstr2~instr~/ruinstr~  
{goto}temp~@count(b46.b47)~  
{home}{pgdn}{pgdn}{goto}input~  
/xitemp=2~{end}{down}  
/xitemp>0~{down}  
{right}  
{?}{left}{?}{right}{down}/xgf28~

CALC:  
/xi@count(b46.b48)<3~/xlInsufficient Data entered.~temp~/xmmenu~  
/wgpd/recalcarea~  
{home}{pgdn}{pgdn}{goto}input~/rncyinput~{bs}.{end}{down}~  
{right}/rncxinput~{bs}.{left}{end}{down}{right}~/rncxvalues~{bs}.{end}{down}~  
{right}/rncyest~{bs}.{left}{end}{down}{right}~  
/wgpd/c~.yest~  
{right}/rncxy~{bs}.{left}{left}{left}{end}{down}{right}{right}{right}~  
/c~.xy~  
{home}{pgdn}{goto}n~@count(yinput)~  
{down}{down}@avg(xinput)~  
{down}@avg(yinput)~  
{down}@avg(xy)~  
{down}{down}+n\*@var(xinput)~  
{down}+n\*@var(yinput)~  
{down}@sum(xy)~  
/wgpe{home}{calc}  
/xmmenu~

RESULTS:

Final

View Regression Equation and Final Statistics.

{goto}a1~

/xmresults~

UPDOWN:

Down

Go Down to Next Page.

{pgdn}/xmupdown~

GRAPHMENU:

Rawdata

Plot Raw Data and Regression Line.

/gtxxxvalues~ayest~byinput~rcdefq

ola{esc}Regression Line~lb{esc}Raw Data~

falbsq

ts{esc}Raw Data & Regression Line~

qv{esc}{esc}

/xmgraphmenu~

GRAPHOPT:

Color

Show Graphs in Color.

/gocqq

/xmgraphopt~

\P:

/recopyright\_p1~

/xmprint~

PALIGN:

/xlAlign Paper then Press ENTER~temp~

/xr

PRINT:

Results

Print Regression Equation, Final Statistics, and Intermediate Results.

/xcpalign~

/ppra1.e40~cbagpq

/xmprint~

NUMBERCONF:

No

Do not erase and resize input area. Return to input menu.

/xminptmenu~

DEFOBSNOS:

/reobsnos~/ctemp~f111~  
{goto}f111~{edit}{home}a~  
/rncobsnos~a46.  
a245  
~/dfobsnos~1~~~/xr

{esc}{esc}{esc}{esc}{esc}  
{esc}{esc}{esc}{esc}{esc}  
{home}/ruinputarea~/xmmenu~

Blank  
Clear Input Fields  
/xmblank~

Calc  
Calculate Results  
/xgcalc~

Yes  
Erase All X-Y Data Values.  
/reinputarea~  
/xmmenu~

YXPairs  
Enter Data in Y-X Pairs (Y First)  
/ruinstr~/cinputinstr2~instr~/ruinstr~  
{goto}temp~@count(b46.b47)~  
{home}{pgdn}{pgdn}{goto}input~  
/xitemp=2~{end}{down}  
/xitemp>0~{down}  
{?}{right}{?}{left}{down}  
/xgg27~

Est-X  
Enter X-Values For Which Y Estimates Are Required  
/ruinstr~/cinputinstr2~instr~/ruinstr~  
{goto}temp~@count(b46.b47)~  
{home}{pgdn}{pgdn}{goto}input~  
/xitemp=2~{end}{down}  
/xitemp>0~{down}  
{right}  
{?}{down}/xgh28~

Sheet1

Intermed  
View Intermediate Results.  
{goto}a21~  
/xmresults~

Rawdata  
View Raw Data and Y Estimates.  
{goto}a41~{goto}a46~/wth  
/xmupdown~

Up  
Go Up to Previous Page.  
{pgup}/xmupdown~

Quit  
Return to Results Menu.  
/wtc/xmresults~

Options  
Set Graph Options.  
/xmgraphopt~  
/xmgraphmenu~

View  
Re-display the Latest Graph.  
/gvq  
/xmgraphmenu~

B&W  
Show Graphs in Monochrome.  
/gobqq  
/xmgraphopt~

Quit  
Return to Graph Menu.  
/xmgraphmenu~

Data  
Print Raw Data and Y Estimates.  
/xcpalign~  
{goto}a46~  
/ppr{bs}~{right}{right}{right}{right}{end}{down}~  
cbobra41.e45~qagpq  
/xmprint~

Quit  
Return to Main Menu.  
/ccopyright~copyright\_p1~/rucopyright\_p1~  
{home}/xmmenu~

Yes  
Erase and resize input area, then return to input menu.  
/xgnumber~

## Sheet1

DEFINPUTAREA:

/reinputarea~/rpinputarea~/ctemp-h111~

{goto}h111~{edit}{home}c~

/rncinputarea~b46.

d245

~/ruinputarea~/xr



Results

Show Results

/xmresults~

Range

Use Standard 'Range Input' Facility.

/ruinstr~/cinputinstr~instr~/ruinstr~

/riinputarea~

/xminptmenu~

Quit  
Return to Main Menu.  
{home}/xmmenu~

Quit  
Return to Main Menu.  
{home}/xmmenu~

NUMBER:  
/wgpd  
/xnEnter Max. Number of Observations ~temp~  
{goto}temp~{edit}{home}45+@max(20,@min(2000,@int({end})))}{calc}~

/xcdefobsnos~  
/xcdefinputarea~  
/xcdefcalcareas~  
{home}/wgpe  
/xminptmenu~

Graph

Show Graphs

/xi@count(e46.e48)<3~//{esc}/xlInsufficient Data to Plot.~temp~/xmmenu~

/XGgraph~

AGEN:

No

Return to Main Menu in This Worksheet.

/xmmenu~

Number

Set Maximum Number of Observations (erases input area).

/xmnumberconf~

INPUTINSTR:

Enter Y-Values in Column B.

Enter X-Values in Column C.

DEFKALCAREA:  
/recalcarea~/ctemp~j111~  
{goto}j111~{edit}{home}e~  
/rnccalcarea~d47.  
p245  
~/xr

Sheet1

\\:  
{esc}{esc}{esc}{esc}{esc}  
{esc}{esc}{esc}{esc}{esc}  
{home}/ruinputarea~/xminptmenu~

Print  
Print Results  
/xg\P~

Agenda  
Return to Worksheet Selection Agenda  
/xmagen~

Quit  
Exit to 1-2-3  
/xq

Yes  
Exit to Worksheet Selection Agenda.  
/fragenda~

Quit  
Return to Main Menu  
/xmmenu~

INPUTINSTR2:  
Press Ctrl-Break to Stop.  
Then Press Alt-M to Get Menu.

GRAPH:

{goto}setskip~{down}

@MAX(1,@INT(@COUNT(xvalues)/5))

{calc}~{edit}{home}'~

/XCsetskip~

{home}/XMgraphmenu~

SETSKIP:

/GOSS

1

~QQ/XR