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SREGR

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SIMPLE LINEAR REGRESSION WORKSHEET

= = = =

Regression Line is Y= #DIV/0! + X *

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

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	X-Value	Y-Estimate
			#DIV/0!

=	\0: \B:	TEMP:	0
/dfobsnos~1~~~	{esc}{esc}{esc}{esc}{esc}
-	/ruinputarea~/wgpe	{esc}{esc}{esc}{esc}{esc}
{home}/xmmenu~	{home}/ruinputarea~/xmmenu
=

MENU:

#DIV/0!Input	Blank	Calc	Results
Input Data	Clear Input Fie	Calculate Resu	Show Results
#DIV/0!/xminptmenu~	/xmblank~	/xgcalc~	/xmresults~
#DIV/0!

BLANK:

No	Yes
#DIV/0!Leave Data Int	Erase All X-Y Data Values.
0/xmmenu~	/reinputarea~
/xmmenu~

INPTMENU:

XYPairs	YXPairs	Est-X	Range
Enter Data in X	Enter Data in Y	Enter X-Value	Use Standard 'I
/ruinstr~/cinpu	/ruinstr~/cinpu	/ruinstr~/cinpu	/ruinstr~/cinpu
{goto}temp~@	{goto}temp~@	{goto}temp~@	/riinputarea~
1{home}{pgdn}	{home}{pgdn}	{home}{pgdn}	/xminptmenu~
/xitemp=2~{en	/xitemp=2~{en	/xitemp=2~{end}{down}
#DIV/0!/xitemp>0~{dc	/xitemp>0~{dc	/xitemp>0~{down}
#DIV/0!{right}	{?}{right}	{?}{{right}
#DIV/0!{?}{left}	{?}{r/xgg27~	{?}{down}/xgh28~

#DIV/0!CALC:

#DIV/0!/xi@count(b46.b48)<3~/xlInsufficient Data entered.~temp~
#DIV/0!/wgpd/recalcarea~
{home}{pgdn}{pgdn}{goto}input~/rncyinput~{bs}.{end}{
#DIV/0!{right}/rncxinput~{bs}.{left}{end}{down}{right}~/rncxval
#DIV/0!{right}/rncyest~{bs}.{left}{end}{down}{right}~
#DIV/0!/wgpd/c~.yest~
#DIV/0!{right}/rncxy~{bs}.{left}{left}{left}{end}{down}{right}{r
/c~.xy~
#DIV/0!{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)~
Y*X{down}@sum(xy)~
#DIV/0!/wgpe{home}{calc}
/xmmenu~

RESULTS:
Final Intermed Rawdata Quit
View Regressi View Intermed View Raw Dat Return to Main
{goto}a1~ {goto}a21~ {goto}a41~{gc {home}/xmme
/xmresults~ /xmresults~ /xmupdown~

UPDOWN:
Down Up Quit
Go Down to N Go Up to Previ Return to Results Menu.
{pgdn}/xmupd {pgup}/xmupd/wtc/xmresults~

GRAPHMENU:
Rawdata Options View Quit
Plot Raw Data Set Graph Opti Re-display the Return to Main
/gtxxxvalues~a/xmgraphopt~ /gvq {home}/xmme
ola{esc}Regre/xmgraphmenu/xmgraphmenu~
falbsq
ts{esc}Raw Data & Regression Line~
qv{esc}{esc}
/xmgraphmenu~

GRAPHOPT:
Color B&W Quit
Show Graphs i Show Graphs i Return to Graph Menu.
/gocqq /gobqq /xmgraphmenu~
/xmgraphopt~ /xmgraphopt~

\P:
/recopyright_p1~
/xmprint~

PALIGN:
/xlAlign Paper then Press ENTER~temp~
/xr

PRINT:

Results	Data	Quit
Print Regressic	Print Raw Data	Return to Main Menu.
/xcpalign~	/xcpalign~	/ccopyright~copyright_p1~/ru
/ppra1.e40~cb	{goto}a46~	{home}/xmmenu~
/xmprint~	/ppr{bs}.{right}{right}{right}{right}{end}{	
	cbobra41.e45~qagpq	
	/xmprint~	

NUMBERCONF:

No	Yes
Do not erase ar	Erase and resize input area, th
/xminptmenu~	/xgnumber~

NUMBER:
/wgpd
/xnEnter Max.
{goto}temp~{e
/xcdefobsnos~
/xcdefinputarea
/xcdefcalcarea~
{home}/wgpe
/xminptmenu~

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

DEFINPUTAREA:
/reinputarea~/rpinputarea~/cte
{goto}h111~{edit}{home}c~
/rncinputarea~b46.
d245
~/ruinputarea~/xr

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

Graph	Print	Agenda	Quit
Show Graphs	Print Results	Return to Worl	Exit to 1-2-3
/xi@count(e46/xg\P~		/xmagen~	/xq
/XGgraph~			

AGEN:

No	Yes
Return to Main	Exit to Worksheet Selection Agenda.
/xmmenu~	/fragenda~

Number	Quit
Set Maximum	Return to Main Menu
/xmnumbercon	/xmmenu~

INPUTINSTR1:	INPUTINSTR2:
Enter Y-Value	Press Ctrl-Break to Stop.
Enter X-Value	Then Press Alt-M to Get Menu.

/xmmenu~

down}~
lues~{bs}.{end}{down}~

ight}{right}~

ı Menu.
nu~

GRAPH:
{goto}setskip~{down}
ı Menu. @MAX(1,@INT(@COUNT(xvalues)/5))
nu~ {calc}~{edit}{home}'~
/XCsetskip~
{home}/XMgraphmenu~

SETSKIP:
/GOSS
1
~QQ/XR

copyright_p1~

down}~

Number of Observations ~temp~
{edit}{home}45+@max(20,@min(2000,@int({end})))){calc}~

~

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