Name	
Date	 _

Don't be Scatterbrained about Scatter plots Student Assignment

Lesson Objectives:

- To write linear equations that model real-world data.
- To make predictions from linear models.

Problem #1		
	X	У
Record Data on TI-Nsnire	-3	8
	-2	6
Graph the Data as a Scatter plot	-1	5
	0	3
Independent axis is	1	2
Dependent axis is	2	0
<u>r</u>		

The correlation is Strong/Weak, Positive/Negative, None.

Predicted Trend Line Equation _____

Actual Line-of-Best-Fit (Regression) Line _____

M = _____ b= _____

Correlation Coefficient (r) = _____

Save as Problem #1

Problem # 2

Forearm Foot **Record Data on TI-Nspire** 22 24 19 20 (Do Not Do Fill Down) 24 24 Graph the Data as a Scatter plot 23 21 23 25 Independent axis is _____ 18 18 20 21 Dependent axis is _____ 23 23 The correlation is Strong/Weak, Positive/Negative, None. 24 25 22 20 Predicted Trend Line Equation _____

Actual Line-of-Best-Fit (Regression) Line _____

M = _____ b= ____

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Save as Problem #2

Problem #3

Record Data on TI-Nspire

Graph the Data as a Scatter plot

Independent axis is _____

Dependent axis is _____

The correlation is Strong/Weak, Positive/Negative, None.

Predicted Trend Line Equation _____

Actual Line-of-Best-Fit (Regression) Line _____

M = _____ b= ____

Correlation Coefficient (r) = _____

Save as Problem #3

Year	Pounds
1990	24.4
1991	25.1
1992	27.3
1993	26.8
1994	28.1
1995	27.4

Problem # 4

Length Age **Record Data on TI-Nspire** 14 5 2 15 (Do Not Do Fill Down) 9 3 Graph the Data as a Scatter plot 7 8 1 12 Independent axis is _____ 10 3 3 12 Dependent axis is _____ 6 9 The correlation is Strong/Weak, Positive/Negative, None.

Predicted Trend Line Equation _____

Actual Line-of-Best-Fit (Regression) Line

M = _____ b= _____

Correlation	Coefficient	(\mathbf{r})	=	
		(—		

Save as problem #4

Problem # 5

Record Data on TI-Nspire

Graph the Data as a Scatter plot

Independent axis is _____

Dependent axis is _____

The correlation is Strong/Weak, Positive/Negative, None.

Predicted Trend Line Equation

Actual Line-of-Best-Fit (Regression) Line _____

M = _____ b= _____

Correlation Coefficient (r) = _____ Save as Problem #5

Birth Yr.	Life Yr.
1985	74.7
1990	75.4
1995	76.3
2000	76.7
2005	77.3
2010	77.9

Problem # 6

	Hours	Grade
Record Data on TI-Nspire	0	29
(Do Not Do Fill Down)	.25	32
	.5	35
Graph the Data as a Scatter plot	.75	38
	1	40
Independent axis is	1.5	47
Dependent axis is	2	54
·	3	66
The correlation is Strong/Weak, Positive/Negative, None.	5	79
Producted Trand Line Equation	7	89
Actual Line-of-Best-Fit (Regression) Line		
M = b=		
Correlation Coefficient (r) =		

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Save as problem #6