

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**

**Record Data on TI-Nspire**

**Graph the Data as a Scatter plot**

**Independent axis is** \_\_\_\_\_

**Dependent axis is** \_\_\_\_\_

x	y
-3	8
-2	6
-1	5
0	3
1	2
2	0

**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**

**Record Data on TI-Nspire**

*(Do Not Do Fill Down)*

**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 #2**

Forearm	Foot
22	24
20	19
24	24
21	23
25	23
18	18
20	21
23	23
24	25
20	22

**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**

**Record Data on TI-Nspire**

*(Do Not Do Fill Down)*

**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 #4**

Age	Length
5	14
2	15
9	3
7	8
12	1
10	3
3	12
6	9

**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**

**Record Data on TI-Nspire**

*(Do Not Do Fill Down)*

**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 #6**

<b>Hours</b>	<b>Grade</b>
0	29
.25	32
.5	35
.75	38
1	40
1.5	47
2	54
3	66
5	79
7	89