Residuals Worksheet   Name_____
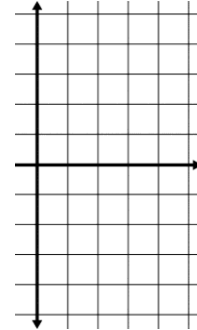
Date_____ Period_____

Directions: Complete each table using the given values. A calculator will be very useful. Round answers to one decimal place. Construct the residual plot. Be sure to label the independent and dependent variables, along with the units.

1. Linear Regression equation: y = 0.5x

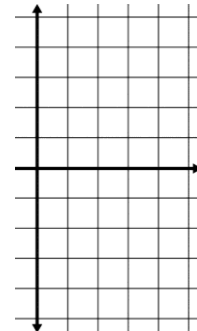| x	y (Observed Value)	Predicted Value	Residual Value
5	3		
10	4		
15	9		
20	7		
25	13		
30	15		

Does the residual plot suggest a linear relationship? Explain.

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2. Linear Regression equation: y = -0.4x + 16.3

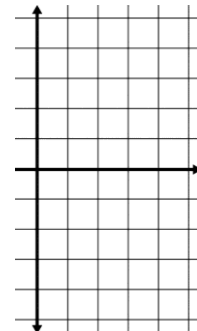| x	y (Observed Value)	Predicted Value	Residual Value
2	5		
4	15		
6	26		
8	23		
10	11		
12	3		

Does the residual plot suggest a linear relationship? Explain.

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3. Linear Regression equation: y = 0.5x

x	y (Observed Value)	Predicted Value	Residual Value
100	505		
90	460		
80	415		
70	360		
60	305		
50	265		

Does the residual plot suggest a linear relationship? Explain.

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