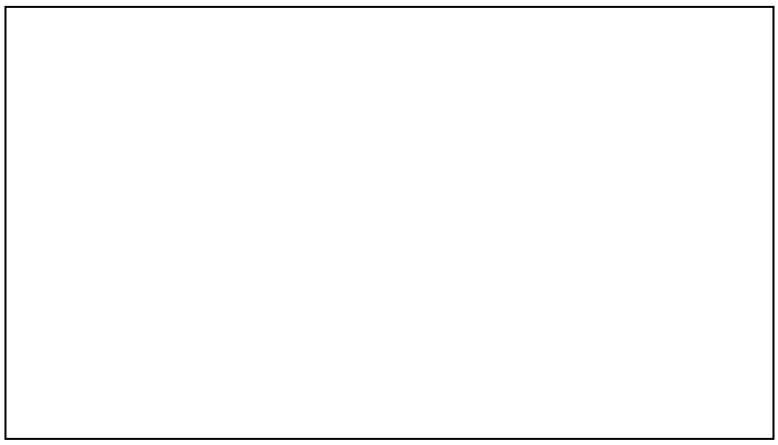
The following table shows the number of endangered and threatened species in the US from 2003 through 2013

YEAR	NUMBER
2003	813
2004	941
2005	962
2006	1053
2007	1132
2008	1194
2009	1205
2010	1244
2011	1254
2012	1262



(a) Use a graphing utility to plot the data as a scatter plot.

(b) Use your graphing calculator to find a linear model of the data and sketch it in the above viewing window.

(c) Use your graphing calculator to find a quadratic model of the data and sketch it in the above viewing window

LINEAR

a = _____

b = _____

r = _____

QUADRATIC

a = _____

b = _____

c = _____

r = _____

(D) Which of the models has the higher correlation and what is that correlation?

BETTER MODEL:_____

Very Strong Correlation	Strong Correlation	Good Correlation	Weak Correlation	No Correlation

(E) Using the better model calculate the number of endangered and threatened species for the United States in 2012.

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