**1st Assignment Advanced General Science--Ecotoxicology**

**Data that demonstrates the relationship between Wolves and Elk in Yellowstone National Park**

|  |  |  |
| --- | --- | --- |
| **Year** | **Elk per 5 square kilometer** | **Wolves per 5 square kilometer** |
| 1979 | 60 | 5 |
| 1980 | 75 | 5 |
| 1981 | 80 | 15 |
| 1982 | 89 | 20 |
| 1983 | 79 | 22 |
| 1984 | 72 | 18 |
| 1985 | 53 | 8 |
| 1986 | 45 | 4 |
| 1987 | 57 | 6 |
| 1988 | 65 | 8 |
| 1989 | 87 | 15 |
| 1990 | 90 | 16 |
| 1991 | 83 | 14 |

1. Looking at the data table and the values provided:

i) Indicate which is the Independent Variable (the one that the researchers changed or had control over).

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ii) Indicate which is the Dependent Variable (the one that changed as a result of the independent variable changing—the one that is measured as a result of the independent variable.

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**2.** Graph the data on the downloaded graph paper from msmcraesscience.weebly.com.

Make sure to use the Graphing Rules sheet from the website.

**3.** **Interpret** the graph. Look up the definition of this word.

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**4.** **Describe** the graph—the trends.

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**5.** **Explain** why the graph is the way it is.

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