Attachment A: Mystery of the Missing Bug Worksheet

Group	# of Individuals	Tolerance Value
Sensitive to pollution		1
Semi-sensitive to pollution		4
Semi-tolerant of pollution		6
Tolerant of pollution		9
Total		X

Multiply the number of individuals in each group by their tolerance values.

_____   _____   _____   _____

What is the sum of the four products?   _____

Divide the sum of the four products by the total number of individuals in your sample.   _____

This number is the Biotic Index of your sample site.

Compare the biotic index of your sample site with the chart below.

Biotic Index	Water Quality	Degree of Pollution
0.00-3.50	Excellent	No apparent pollution
3.51-4.50	Very Good	Slight pollution
4.51-5.50	Good	Some pollution
5.51-6.50	Fair	Fairly significant pollution
6.51-7.50	Fairly poor	Significant pollution
7.51-8.50	Poor	Very significant pollution
8.51-10.00	Very poor	Severe pollution

What is the water quality of your sample site?

_____

Which students in your class have the sample of the most polluted site?

_____

_____

_____

_____.