



Scientific Data:

Finish filling in the table below. Use the data to answer the scientific question:

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Bluegill Behavior	Proportion Survived	Percent Survival	Average Length (mm)	Length SE**	Average Weight (g)	Weight SE
Bold	66/100		68.6	0.8	5.5	0.2
Shy	74/100		65.6	0.8	4.8	0.2

** Standard error (SE) tells us how accurate our estimate of the mean is likely to be and depends on the number of replicates in an experiment and how much variation is in the data.

Graphing: What data will you graph to answer the question?

Graph 1: Survival

Independent variable:

Dependent variable:

Graph 2: Length

Independent variable:

Dependent variable:

Graph 3: Weight

Independent variable:

Dependent variable:

Draw your three graphs on a separate sheet of paper!

Interpretations

- 1) What trends, changes, or differences do you see in the table or on the graphs?

- 2) What does the relationship between the dependent and independent variables mean?

- 3) Make a claim that answers the scientific question.

- 4) Support your claim using data as evidence. Reference specific parts of the table or graphs.

- 5) Explain your reasoning and how the data supports your claim. Connect the data back to what you learned about fish personality and habitat tradeoffs.

- 6) What other evidence would you like to collect to test the hypothesis that bold fish are using the open water habitat while shy fish are using the cover habitat?