Edges Seeking Behavior of Mice

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Purpose: I can understand how to complete a simple laboratory investigation involving mice.

Background: In this laboratory investigation mice are tested to find out if they have a preferred location in a room, which is simulated with a box.

SS = _____   CT =(CT contains SS!) _____

MV= _____   ET = _____

RV = _____   (ET Contains SS & MV!)

CV1 = _____   UCV1 =_____

CV2 = _____   UCV2 =_____

Question: How will … (verb?)… *Manipulated Variable …. Study Subject*.. (either order) affect the Responding Variable ?

_____

Prediction/Hypothesis IF (ss/mv)_____

Then (et-predict)_____

Compared to (ct)_____

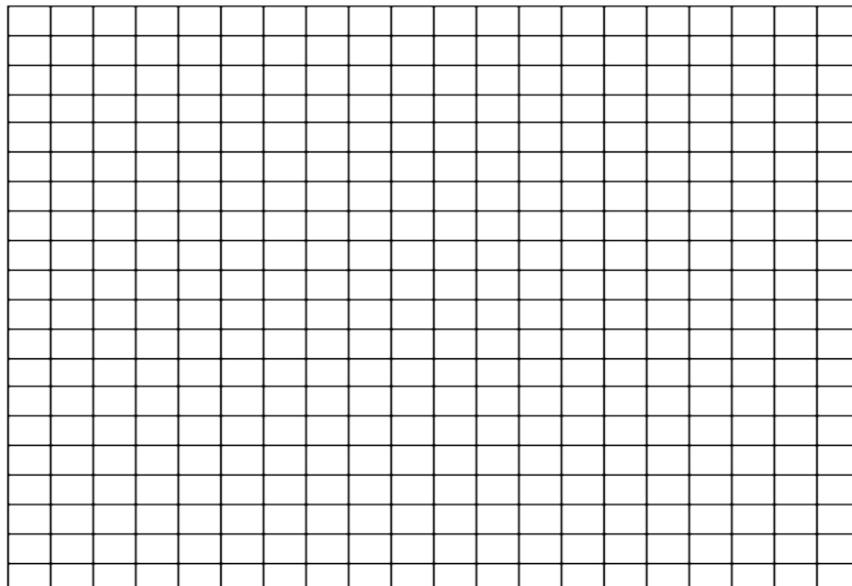**Because** (ss,mv,rv & why)_____

_____

Therefore_____

Data Analysis: Use the AVERAGES from your Data Table to Bar Graph the data from Data Table 1 below

       a. Use two spaces for each corridor bar, with one between each station.

    Bar Graph One – Edge Seeking Behavior of Mice

Λ

Number of

Occurances

Corridors ->

Edges Seeking Behavior of Mice

1. **Consider the data shown in Bar Graph 1 above. Which pair of corridors did your mouse prefer?**

    a. (1&2) the center pair of corridors

    b. (3&4) the middle pair of corridors

    c. (5&6) the outer corridors?

3. How great was the difference compared to each of the other corridors. (1.5x, 2x, 2.5x, etc)

    a. Edge corridors (5&6) to Center corridors (1 & 2)   _____

    b. Edge corridors (5&6) to Middle corridors (3 & 4)   _____

4. Tell 2 Controlled Variables and 2 Uncontrolled variables

Controlled Variables	Uncontrolled Variables
a.	a.
b.	b.

Conclusion

5. Was your hypothesis accepted or rejected? (circle)   a. Accepted   b. Rejected

6. Explain why the hypothesis was accepted or rejected. Use data as evidence. _____

_____

_____

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7. Tell how reliable this data was and explain why you think this is so. _____

_____

_____

_____

_____

_____

Data Table 1 – Wall Seeking Behavior of Mice						
Time	Corridor 1	Corridor 2	Corridor 3	Corridor 4	Corridor 5	Corridor 6
0:20						
0:40						
1:00						
1:20						
1:40						
2:00						
2:20						
2:40						
3:00						
3:20						
3:40						
4:00						
4:20						
4:40						
5:00						
5:20						
5:40						
6:00						
6:20						
6:40						
7:00						
7:20						
7:40						
8:00						
8:20						
8:40						
9:00						
9:20						
9:40						
10:00						
Totals						

Observer _____**Timekeeper** _____

Animal Handler _____**Recorder** _____