Walls vs Edge Seeking Behavior of Mice   buttemer/schmied/reid©2015

Purpose: I can complete a comparative 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)_____

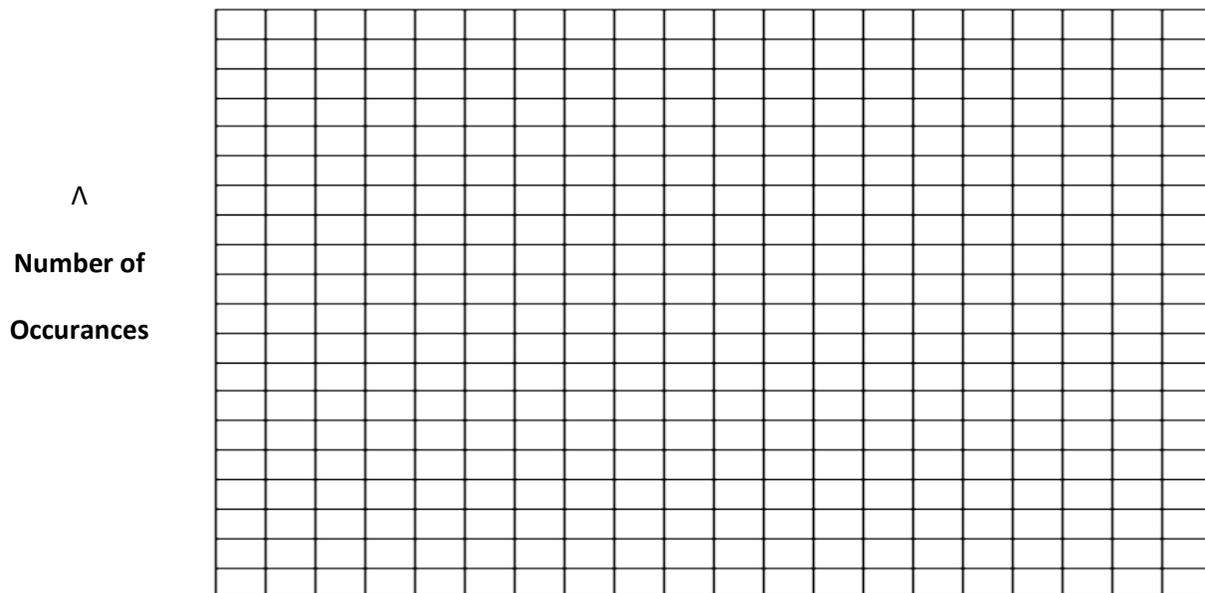**Compared to** (ct)_____

Because (ss,mv,rv & why)_____

_____

Therefore_____

Data Analysis: Use the Averages from the Class Data Table to create a Bar Graph 1 below

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

Bar Graph One – Walls vs. Edge Seeking Behavior of Mice

Λ

Number of

Occurances

Corridors ->

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ANALYSIS: Use the data in Bar Graph 1 to tell which pair of corridors did your mouse prefer? (Circle)

    1. Center   Walls 1+2   OR   Edges 1+2

    2. Middle   Walls 3+4   OR   Edges 3+4

    3. Outer   Walls 5+6   OR   Edges 5+6

4. How great was the difference compared to each pair of corridors?

    a. Walls (1+2) to Edges (1+ 2)   _____ : _____

    b. Walls (3+4) to Edges (3 + 4)   _____ : _____

    c. Walls (5+6) to Edges (5 + 6)   _____ : _____

5. Identify two types of error that occurred, explain how each was caused,

Type of Error	How was this error caused?	What effect did this error have on the data?
a.		a.
b.		b.

Conclusion

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

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

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Data Table 3 – Wall Seeking vs Edge Seeking Bx of Mice						
Time	Wall1/2	Wall3/4	Wall5/6	Edge1/2	Edge3/4	Edge5/6
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 _____

Walls vs Edge Seeking Behavior of Mice

Animal Handler _____   Recorder   _____