Thumbwrestling Investigation

Name_____ Date_____

Question: *The question should be a complete sentence which specifically relates to the design of the experiment.*

Does thumblength effect thumbwresting ability?

Background Information: *Using notes, discussions and textbook discuss what you already know about the topic of the investigation with enough detail to support your hypothesis.*

- use thumbs - hold fingers - no shake
- 3 second pin - best of 3
- forearms on table - 1, 2, 3, 4 I declare a thumb war
- no sneak attacks - no pull aways
- no helper fingers

Hypothesis: *Stated in an "if-then" format so that the "then" predicts a specific trend in data collected.*

For example:
If (change the independent variable), then (predicted change of the dependent variable).

If the upponent has a longer thumb, then they will win more often

Materials: *A bulleted list of all the equipment needed to carry out the entire experiment*

- thumb
- hand sanitizer
- ruler
- desk
- pen/pencil
- lab

Identify Variables

One Independent Variable
(The one YOU choose to change)

thumb length

One Dependent Variable
(What you are measuring)

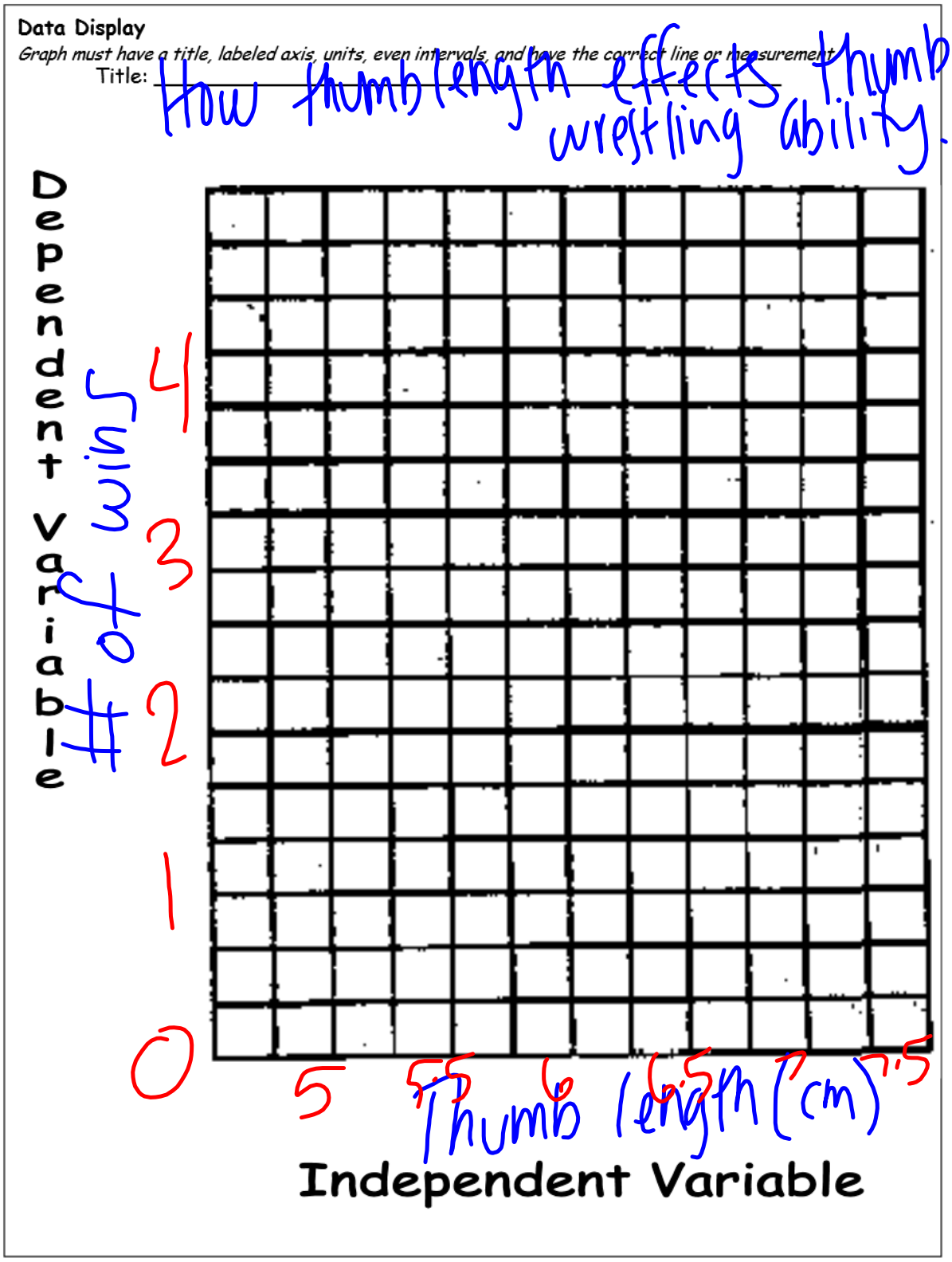
# of wins

Controlled Variables
(The factors you keep exactly the same in all parts of the lab)

- all rules
- way we measures thumbs
- age of students

Data Collection:

Thumb Length (cm)	# of People	Wins	Average Number of Wins
5	3	1	.3
5.5	3	6	2
6	7	10	1.4
6.5	5	10	2
7	2	2	1
7.5	1	4	4
8			


Data Display
Graph must have a title, labeled axis, units, even intervals, and have the correct line or measurement
Title: How thumb length effects thumb-wrestling ability.
Dependent Variable
# of wins
4
3
2
1
0
5
5.5
6
6.5
7
7.5
Thumb length (cm)
Independent Variable

Conclusion:

1. What is your conclusion; In other words in this experiment what was the effect of thumb length on thumbwrestling if any? Support this with DATA.