

Name: \_\_\_\_\_

Score: \_\_\_\_ /20

I. Write the letter of the correct answer on the space before each number. (5 pts.)

Refer to the table below to answer questions 1 – 4

James would like to know which of the three models of tablet has longer battery life. He used ipad mini, ipad mini with retina, Ipad 4and Ipad Air. After charging the tablets to 100%, he set the tablets in the same brightness, volume, and sensitivity. He played the same game to the four tablets for 1 hour and recorded the battery life of each tablet.

Tablet	Initial Battery life (Before game)	Game	Duration of the Game	Final Battery life (After the game)
Ipad mini	100 %	Minecraft	1 hr	60%
Ipad mini with retina	100 %	Minecraft	1 hr	75%
Ipad 4	100 %	Minecraft	1 hr	90%
Ipad Air	100 %	Minecraft	1 hr	80%

- \_\_\_\_\_1. Which is the dependent variable?

a. model of tablet

b. game

c. battery life

d. initial battery charge
- \_\_\_\_\_2. Which is the independent variable?

a. model of tablet

b. size of tablet

c. battery life

d. initial battery charge
- \_\_\_\_\_3. The statement “ipad 4 has the longest battery life” is a / an \_\_\_\_\_.

a. conclusion

b. hypothesis

c. problem

d. data
- \_\_\_\_\_4. Which is the controlled variable?

a. model of tablet

b. game

c. battery life

d. initial battery charge
- \_\_\_\_\_5. Which of these would be the conclusion of JB’s experiment? JB concluded that \_\_\_\_\_.

a. all tablets have the same battery life

b. Ipad 4 has the longest battery life

c. the game does not affect the battery life

d. Ipad mini with retina has the shortest battery life

II. Read and answer the questions that follow. (5 pts.)

Thea sought to discover which diaper brand will hold more liquid. She used a measuring cup filled with water and pours it to the diapers. She counted the number of cups of liquid each diaper can hold and recorded it to the table below.

Diaper Brand	Amount of Liquid it can hold till it leak
A	10 / cups
B	9 / cups
C	15 / cups

1. What is the problem?
- \_\_\_\_\_

\_\_\_\_\_

2. Give one hypothesis.
- 
- 
3. Identify one controlled variable.
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4. Identify the independent variable.
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5. What is the conclusion?
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IV. Make a bar graph of the data given below. Then, write a conclusion based on the result presented in the data. (15 pts.)

Game	No. of Gamer per classroom
A	3
B	30
C	15

Criteria	
Correct graphing of data	5 pts.
Correct label of data	3 pts.
Cleanliness of graph	2 pts.
Total	10 pts.



Conclusion: Based on the result of the experiment