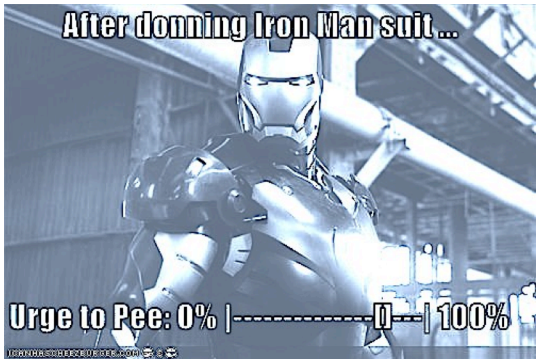
Magic Square Review: Scientific Method Name_____

- Write the NUMBER of the question in the square of the answer's LETTER.
- If you get them all right, you will get the same magic number when you add all the numbers in any row, column, or diagonal.

a.	b.	c.	d.
e.	f.	g.	h.
i.	j.	k.	l.
m.	n.	o.	p.

The magic number is……

_____

a. A predictive "If… then…" statement that is testable
b. Ted wanted to test the effects of Mountain Dew on urination frequency. Frequency of urination is a _____
c. In an experiment, group 2 is given a treatment and group 1 is NOT given the treatment. The effects of the treatment are measured and recorded for both groups. Which group is the control?
d. In an experiment, group A is NOT given a treatment and group B is given the treatment. The effects of the treatment are measured and recorded for both groups. Which group is the experimental?
e. Wiz Khalifa calls many record stores to see which of his records sells the best.
f. Wiz finds that not ONE person bought his record from the store. He decides that most of his record sales must be from iTunes. What did Wiz just make?
g. In question d., which group is the control?
h. Dr. Bennett sees that students are once again at Central High on a Saturday morning, beating on the locked doors with tears streaming down their faces.
i. The part (or parts) of an experiment that are kept the same as usual; used for comparison with the experimental group.
j. Miley does an experiment to see if acting like an insane circus animal on crack will make her better. Problem with the experiment?
k. Max Thunderman plays Rebecca Black songs in his evil lair for one whole week to see if it keeps his brothers and sisters from coming down there and bugging him. The songs are an _____.
l. Steps that scientists use to gather info and answer questions.
m. IronMan wonders, "What will happen if I relieve myself in this suit?" and then performs a messy little experiment.
n. In a scientific study, Group 2 listens to country music while driving, and Group 1 listens to no music. Which group is getting the treatment?
o. An investigation that tests a hypothesis by collecting information under controlled conditions
p. A scientific study has a group of high school students work each day after school in the local soup kitchen to see if their attitudes toward homeless people are changed. At the end, the kids say it was pretty cool to help others. Problem with this experiment?

1. Hypothesis
2. Scientific method
3. Experiment
4. Conclusion
5. Observation
6. Question
7. It has no clearly measurable DV
8. Group 1
9. Group 2
10. Group A
11. Group B
12. Control
13. Independent Variable
14. Dependent Variable
15. Data collection
16. It has no control(s)