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Per. 1 Heerschap

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Odwalla vs. Monster

Purpose/Question: Does the type of beverage that you drink before answering multiplication problems affect how fast and accurate you can answer them?

Initial Hypothesis: We believe that if you drink 8fl.oz of Odwalla then you will answer multiplication problems faster because of all of the vitamins and natural sugars that Odwalla juice contains.

Research: I couldn’t find any research that showed that anyone had done this specific experiment before. Although I did find evidence that people did conduct experiments using both Odwalla and Monster Energy.

Materials List: We will need 1 stopwatch, 12 sheets of multiplication facts, 36 fl. oz of Odwalla, 36 fl. oz of Monster Energy Drink, 36 fl. Oz of water, a graduated cylinder, 6 small cups, and 3 male and female test takers

Detailed Procedures: Measure 150ml of Monster or Odwalla and pour it into a cup. Then, give the tester aprox. 5 minutes for the beverage to settle. Next, give the participant a multiplication test and give them 2 minutes to complete the test. Finally, grade the tests and record results.

Data: Our graphs and our results are shown in the following pages

# Conclusion: Our experiment of testing which beverage helps you more with taking a multiplication test was very interesting. The results that we conducted were not supported by our hypothesis. Our hypothesis was proved wrong when 5 out of the 6 participants tested better after drinking 150ml of Monster Energy drink. We thought that our testers would test better after sampling Odwalla because the array of natural sugars and energy. Although the results that we got may not of been directly related to the drink or more so if they had more to eat one of the days, or more sleep. All of these are uncontrolled variables maybe we can do a more in depth experiment in the future.

Sources of Error: If I were to conduct this experiment again I would have made sure that the people who are taking the test are well rested and had a good breakfast. Also I would try to cancel out any other variables like I notices some of our participates were very hyper the second day of testing. Another thing we could take into consideration is what level of math are the students who are taking the test.

Legit?: I would say our experiment was ok. It was not to action packed, compared to a potato cannon or die ice bombs.

Respond to hypothesis: Our hypothesis was almost completely wrong, Although it might not of been directly related to the beverages.