Dog toys: Does Color and Size Matter

Problem Statement

- How will the color and size of a dog toy affect how how long the dog uses it?

Variables

- Independent Variable: The size and color of a dog toy
- Dependent Variable: How long the dog uses it
- Control Variables:
    - 1: The Dog
    - 2:   Where the dog uses the toy
    - 3: The time of day
    - 4:   The brand of the dog toy
    - 5:   The material of the dog toy

Research

- The best material for a dog toy is Rubber
- Golden Retrievers are the most playful dog
- One type of dog toy is ¨Kong¨
- Small toys are better for smaller dogs
- Most big dogs like big toys

5 Vocab Words You Need to Know

1. Toy: an object, often a small representation of something familiar, as an animal or person, for children or others to play with; plaything.

2. Size: the spatial dimensions, proportions, magnitude, or bulk of anything

3. Color: the quality of an object or substance with respect to light reflected by the object, usually determined visually by measurement of hue, saturation, and brightness of the reflected light; saturation or chroma

4. Dog: a domesticated canid, *Canis familiaris,* bred in many varieties.

5. Material: the substance or substances of which a thing is made or composed

Hypothesis

If the color and size of a dog toy effects how long the dog uses it
Then I can tell people what size dog toy they should get
Because people don't want to get a lot of dog toys to figure out which one their dog likes

Materials

- A dog
- Different sized dog toys
- A room(big or small)
- A timer

Procedure

1. Get all different size and color dog toys

2. Get a dog

3. Go into a room with a timer

4. Let the dog play with the toys one by one

5. Record how long the dog uses each toy

6. Figure out if the color and size of a dog toy matters
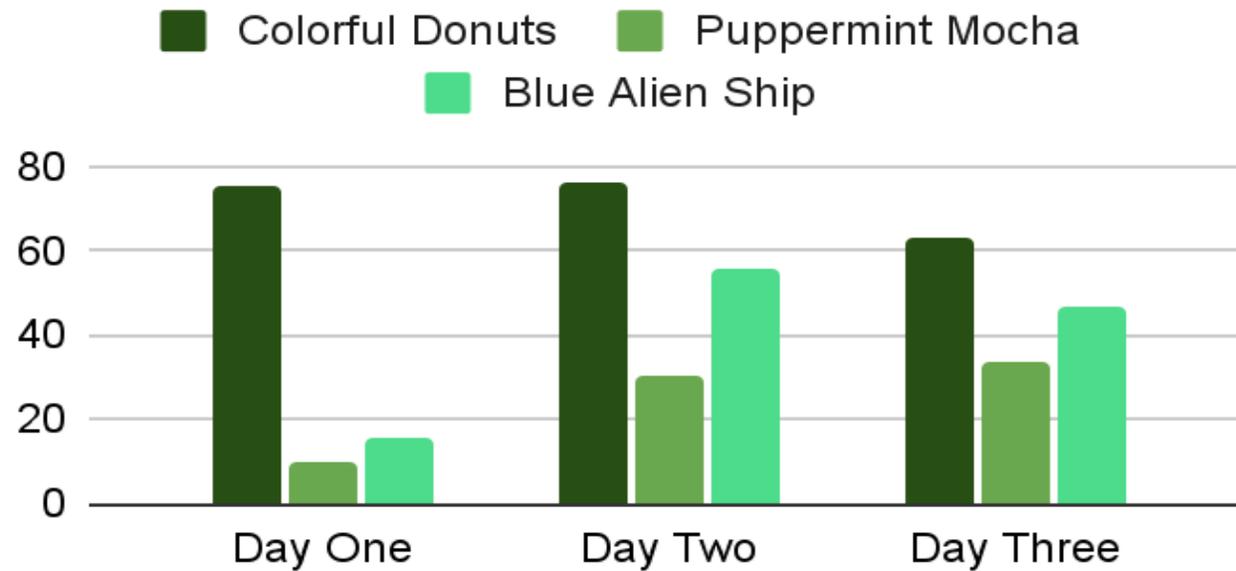
Data Collection Table

Small Colorful Donuts	Medium Puppermint Mocha (red and green)	Large Blue Alien Ship
Day one: 75 minutes	Day one: 10 minutes	Day one: 16 minutes
Day Two: 62 minutes	Day Two: 30 minutes	Day two: 56 minutes
Day Three: 63 minutes	Day Three: 34 minutes	Day Three: 47 minutes

Data Analysis

- The dog used the toys with holes in them for long periods of times and didn't want to destroy them.
- The one toy the dog didn't really enjoy was the Puppermint Mocha, which did not have a hole in it. The dog also destroyed this one.
- The dog's favorite toy was the colorful donuts
- The blue spaceship came in close second because of the holes on the sides
- All of the toys were very colorful which the dog loved

Data Analysis Graph

Conclusion

- My hypothesis was accepted because I figured out what the dog toy looks like and also figured out a couple other interesting facts about what my dog liked the most. Something fascinating that I learned was my dog really enjoyed colorful things, but what the dog enjoyed the most were holes. When there weren't holes in a toy, the dog liked to make one and when there was a hole the dog didn't ruin that toy especially the colorful donut toys.

Application

- This could help people when they want to go get their dogs new toys, they would know what type of dog toy to get their dog a toy they wouldn't like.

- If I were to extend my project I would probably experiment on more dogs instead of just one dog and bring in more toys.

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