

Marley Eisman  
*Put One Paw in Front of the Other*

The purpose of my experiment was to figure out how the number of steps varies between different sizes of dogs with different step and stride lengths when they each walk a mile. This research could help dog owners understand, that while they may be walking their dogs the same amount, one could be getting way more exercise than another. I conducted an experiment to figure this out. First, I found nine dogs of vastly varying sizes. I measured the legs of each dog to determine its size. Then, I had the owners of each dog walk the dog along twenty-four feet (all at the same speed) while I filmed them in slow motion. They did this three times. Then I watched the videos and counted the steps of each dog. From there, I could average out the three tests and find the average number of steps in a mile. By comparing the results from all nine dogs, I found out that the smallest dog measured took 5,757 steps more than the largest dog measured. In conclusion, a smaller dog could be taking many more steps, and therefore get a lot more exercise, than a larger dog even if they're walking the same distance.