

Delegate Exercise 3

- A. I will take 10 children all of the same age (5 years old) and all boys. Five of them will have a normal diet and the other five will have the same diet but additional vitamin D tablets. The children will have their legs X-rayed at the start and then after 1 year they will have them X-rayed again to see how many of them have developed rickets. Because exposure to sunlight causes vitamin D production, all the children will have the same amount of time outdoors.
- B. I will take a girl and measure the length of her legs. I will then give her vitamin D supplements for a year and then measure the length and curve of her legs at the end. I will make sure that everything else is kept the same.
- C. I will take two girls of the same age and give one vitamin D and the other no vitamin D in their food. I will measure the length and strength of their leg bones at the end of a year and see if there is a difference in their lengths. I will then repeat this using different amounts of vitamin D. Everything else will be kept the same.