

Science 9 - LD₅₀ Questions

1. The LD₅₀ for rat poison is 0.27mg/kg. If a rat with a mass of 0.85 kg ingested 0.50 mg of rat poison will it possibly die?
2. Find the max amount of theobromine in grams needed to reach the max LD₅₀ for a 23 kg dog. Theobromine LD₅₀ = 255 mg/kg
3. Which is more toxic, Solution A which has an LD₅₀ of 0.2mg/kg, or Solution B which had an LD₅₀ of 2 mg/kg?
4. Find the amount of arsenic needed to reach the LD₅₀ amount for a 1.75 kg duck. Arsenic LD₅₀ = 13 mg/kg
5. Whoops, Mr. K ate too much ice cream and has an irrational fear of dying from eating too much sugar. The LD₅₀ for sugar is 29,700 mg/kg. Mr.K weighs 80.5kg, and ate about 800 grams of sugar. Is he going to be okay?