1. How much of a 100.0 g sample of 198Au is left after 8.10 days if its half-life is 2.70 days?
2. A 50.0 g sample of 16N decays to 12.5g in 14.4 seconds. What is its half-life?
3. The half-life of 42K is 12.4 hours. How much of a 750g sample is left after 62.0 hours?
4. What is the half-life of 99Tc if a 500g sample decays to 62.5g in 639,000 years?
5. The half-life of 232Th is 1.4 x 1010 years. If there are 25.0g of the sample left after 2.8 X 1010 years, how many grams were in the original sample?
6. There are 5.0g of 131I left after 40.35days. How many grams were in the original sample if its half-life is 8.07 days?
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