

Half Life Calculations Practice

2 pages + 2-page Answer Key

HALF-LIFE CALCULATIONS

1. Radioiodine has a half-life of 8 days. If you start with 40 grams of radioiodine, how much will remain after 16 days?

2. If the half-life of Iodine-131 is 8 days, how much of a 100 gram sample will remain after 16 days?

3. If the half-life of Iodine-131 is 8 days, how long will it take for 100 grams of Iodine-131 to decay to 1/8th of the original amount?

4. The half-life of Uranium-238 is 4.5 billion years. How long will it take for 100 grams of Uranium-238 to decay to 1/8th of the original amount?

5. Uranium-238 has a half-life of 4.5 billion years. If you start with 40 grams, how much will remain after 16 billion years?

6. If the half-life of Uranium-238 is 4.5 billion years, how long will it take for 100 grams of Uranium-238 to decay to 1/8th of the original amount?

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6. If the half-life of Uranium-238 is 4.5 billion years, how long will it take for 100 grams of Uranium-238 to decay to 1/8th of the original amount?

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