

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

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$100 \rightarrow 50 \rightarrow 25 \rightarrow 12.5 \rightarrow 6.25 \rightarrow 3.125$, so 4 halves or 4 half-lives is 32 days, 16 half-lives is 128 days, 16 half-lives is 128 days

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?

$100 \rightarrow 50 \rightarrow 25 \rightarrow 12.5 \rightarrow 6.25 \rightarrow 3.125$, so 4 halves or 4 half-lives is 18 billion years, 16 half-lives is 72 billion years, 16 half-lives is 72 billion years

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?

$40 \rightarrow 20 \rightarrow 10 \rightarrow 5 \rightarrow 2.5 \rightarrow 1.25 \rightarrow 0.625$, so 6 halves or 6 half-lives is 27 billion years, 16 half-lives is 72 billion years, 16 half-lives is 72 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?

$100 \rightarrow 50 \rightarrow 25 \rightarrow 12.5 \rightarrow 6.25 \rightarrow 3.125$, so 4 halves or 4 half-lives is 18 billion years, 16 half-lives is 72 billion years, 16 half-lives is 72 billion years

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