

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?

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?

$1 \rightarrow \frac{1}{2} \rightarrow \frac{1}{4} \rightarrow \frac{1}{8}$ or 3 half-lives, so 24 days or 3 half-lives is 24 days or 3 half-lives

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?

$100 \rightarrow 50 \rightarrow 25 \rightarrow 12.5$ or 3 half-lives = 13.5 billion years
100 grams will remain after 13.5 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?

$40 \rightarrow 20 \rightarrow 10 \rightarrow 5 \rightarrow 2.5$ or 4 half-lives
2.5 grams will remain after 18 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?

$1 \rightarrow \frac{1}{2} \rightarrow \frac{1}{4} \rightarrow \frac{1}{8}$ or 3 half-lives, so 13.5 billion years or 3 half-lives is 13.5 billion years

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