

Half Life Calculations Practice

2 pages + 2-page Answer Key

HALF-LIFE CALCULATIONS

1. Radio-123 has a half-life of 4 days. If you start with 40 grams of Radio-123, how much will remain after 16 days?
2. If the half-life of Carbon-14 is 5730 years, how much of a 100 gram sample will remain after 11460 years?
3. If the half-life of Uranium-238 is 4.5 billion years, how long will it take for Uranium-238 to decay to 1/16 of the original amount?
4. The half-life of Uranium-238 is 4.5 billion years. How long will it take for a sample of Uranium-238 to decay to 1/16 of the original amount?
5. Radio-123 has a half-life of 4 days. If you start with 40 grams, how much will remain after 16 days?
6. If the half-life of Uranium-238 is 4.5 billion years, how long will it take for a sample of Uranium-238 to decay to 1/16 of the original amount?

HALF-LIFE CALCULATIONS

1. Radio-123 has a half-life of 4 days. If you start with 40 grams of Radio-123, how much will remain after 16 days?
 $40 \rightarrow 20 \rightarrow 10 \rightarrow 5 \rightarrow 2.5$
2.5 grams will remain after 16 days.
2. If the half-life of Carbon-14 is 5730 years, how much of a 100 gram sample will remain after 11460 years?
 $100 \rightarrow 50 \rightarrow 25$
25 grams will remain after 11460 years.
3. If the half-life of Uranium-238 is 4.5 billion years, how long will it take for a sample of Uranium-238 to decay to 1/16 of the original amount?
 $1 \rightarrow 1/2 \rightarrow 1/4 \rightarrow 1/8 \rightarrow 1/16$, so 4 half-lives
4.5 billion years \times 4 half-lives
18 billion years will remain.
4. The half-life of Uranium-238 is 4.5 billion years. How long will it take for a sample of Uranium-238 to decay to 1/16 of the original amount?
 $100 \rightarrow 50 \rightarrow 25 \rightarrow 12.5 \rightarrow 6.25$
6.25 grams will remain after 18 billion years.
5. Radio-123 has a half-life of 4 days. If you start with 40 grams, how much will remain after 16 days?
 $40 \rightarrow 20 \rightarrow 10 \rightarrow 5 \rightarrow 2.5$
2.5 grams will remain after 16 days.
6. If the half-life of Uranium-238 is 4.5 billion years, how long will it take for a sample of Uranium-238 to decay to 1/16 of the original amount?
 $1 \rightarrow 1/2 \rightarrow 1/4 \rightarrow 1/8 \rightarrow 1/16$, so 4 half-lives
4.5 billion years \times 4 half-lives
18 billion years will remain.

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