

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 Carbon-14 is 5730 years, how much of a 100 gram sample will remain after 11,460 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. Radium-226 has a half-life of 1600 years. If you start with 64 grams, how much will remain after 4800 years?
6. If the half-life of Potassium-40 is 1.25 billion years, how long will it take for Potassium-40 to decay to 1/16 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?
 $40 \rightarrow 20 \rightarrow 10$
10g 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 11,460 years?
 $100 \rightarrow 50 \rightarrow 25$
25g will remain after 11,460 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?
 $100 \rightarrow 50 \rightarrow 25 \rightarrow 12.5 \rightarrow 6.25$, so 4 half-lives
4.5 billion years $\times$ 4 half-lives
= 18 billion years will remain
5. Radium-226 has a half-life of 1600 years. If you start with 64 grams, how much will remain after 4800 years?
 $64 \rightarrow 32 \rightarrow 16 \rightarrow 8$
8g will remain after 4800 years
6. If the half-life of Potassium-40 is 1.25 billion years, how long will it take for Potassium-40 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
1.25 billion years $\times$ 4 half-lives
= 5 billion years will remain

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