

# 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 Uranium-238 to decay to 1/16 of the original amount?
5. Strontium-90 has a half-life of 28.1 years. If you start with 64 grams, how much will remain after 84.3 years?
6. If the half-life of Technetium-99m is 6.01 hours, how long will it take for Technetium-99m 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 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 Uranium-238 to decay to 1/16 of the original amount?  
 $100 \rightarrow 50 \rightarrow 25 \rightarrow 12.5 \rightarrow 6.25$   
6.25g will remain after 18 billion years
5. Strontium-90 has a half-life of 28.1 years. If you start with 64 grams, how much will remain after 84.3 years?  
 $64 \rightarrow 32 \rightarrow 16 \rightarrow 8$   
8g will remain after 84.3 years
6. If the half-life of Technetium-99m is 6.01 hours, how long will it take for Technetium-99m 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  
6.01 hours  $\times$  4 half-lives  
= 24.04 hours will remain

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**M Walker**



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