

## Half Life Worksheet – Extra Practice

Answers  
Below ↓

- 1) Fluorine-21 has a half life of approximately 5 seconds. What fraction of the original nuclei would remain after 1 minute?
- 2) Iodine-131 has a half life of 8 days. What fraction of the original sample would remain at the end of 32 days?
- 3) The half-life of chromium-51 is 28 days. If the sample contained 510 grams, how much chromium would remain after 56 days? How much would remain after 1 year? How much was present 168 days ago?
- 4) If 20.0 g of a radioactive isotope are present at 1:00 PM and 5.0 g remain at 2:00 PM, what is the half life of the isotope?
- 5) The half life of Uranium-238 is 4.5 billion years and the age of earth is  $4.5 \times 10^9$  years. What fraction of Uranium-238 that was present when Earth was formed still remains?
- 6) Chromium-48 decays. After 6 half-lives, what fraction of the original nuclei would remain?
- 7) The half life of Iodine-125 is 60 days. What fraction of Iodine-125 nuclides would be left after 360 days?
- 8) Titanium-51 decays with a half life of 6 minutes. What fraction of titanium would remain after one hour?
- 9) A medical institution requests 1 g of bismuth-214, which has a half life of 20 min. How many grams of bismuth-214 must be prepared if the shipping time is 2 h?
- 10) The half life of radium 226 is 1602 years. If you have 500 grams of radium today how many grams would have been present 9612 years ago?

①  $\frac{1}{2^{12}} = \frac{1}{4096}$       ②  $\left(\frac{1}{2}\right)^4 = \frac{1}{16}$       ③ 56 days  
 $56 \div 28 = 2$   
 $510(.5^2) = 127.5g$

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④ #3 1 year (365 days)  
 $510(.5^6) = 5.06g$       ④  $\frac{5}{20} = \frac{1}{4}$  50 min

1	0	30	60	min
3	20	10	5	
2		5	2.5	

⑤  $\frac{1}{2^{26}} = \frac{1}{64}$

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⑦  $\frac{1}{2^{16}} = \frac{1}{64}$   
 $360 \div 60 = 6$       ⑧  $60 \div 6 = 10$   
 $\frac{1}{2^{10}} = \frac{1}{1024}$

# Half Life Problems Answer Key

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