

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 4.5×10^9 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
 $56 = 2 \times 28$
 $510(.5^2) = 127.5g$

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		2	1/4	

 ⑤ $\frac{1}{2^{26}} = \frac{1}{64}$

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

Answer Key For Half Life Problems

Lauren Gardner



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web there are three basic types of small induction motors split phase single phase shaded pole single phase and polyphase in two pole single phase motors the torque goes to zero at 100 slip zero speed so these require alterations to the stator such as shaded poles to provide starting torque

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web dec 15 2021 figure 1 a single phase induction motor stator produces a pulsating magnetic field rather than a rotating one as in a three phase motor this means there is no torque when the rotor is stationary once it is moving the currents induced in the rotor create a magnetic field that interacts with the pulsating field to produce a torque and thus