

KEY

Radioactive Half-Life Problems

1.) Calculate the number of half lives it would take for 100 grams of Radium-223 to decay into 3.125 grams of Radon-219.

$$100 \xrightarrow[11 \text{ days}]{①} 50 \xrightarrow[11 \text{ days}]{②} 25 \xrightarrow[11 \text{ days}]{③} 12.5 \xrightarrow[11 \text{ days}]{④} 6.25 \xrightarrow[11 \text{ days}]{⑤} 3.125$$

55

2.) How long would it take for 100 grams of Radium-223 to decay into 3.125 grams of Radon-219 if the half life of Radium-223 is 11 days?

$$100g \longrightarrow 3.125g \text{ TAKES } 5 \text{ HALF-LIVES}$$

$$5 \times 11 \text{ days} = 55 \text{ DAYS}$$

3.) Astatine-217 has a half life of 20 milliseconds. If you start with a 30 gram sample of Astatine-217 how much will be left after 100 milliseconds? Hint: how many half lives in 100 milliseconds.

$$100 \text{ ms} = 5 \text{ HALF-LIVES}$$

$$20 \overline{) 100} = 5$$

$$30g \xrightarrow{①} 15g \xrightarrow{②} 7.5g \xrightarrow{③} 3.75g \xrightarrow{④} 1.875g \xrightarrow{⑤} .9375g$$

4.) Carbon-14 has a half life of 5730 years. An archeologist discovers a piece of cloth in an old cave. If it could be determined that 3.5 half lives had passed since the cloth was made how old would the cloth be?

$$5730 \text{ YRS} \times 3.5 \text{ H.L.} = 20,055 \text{ years}$$

5.) If you start with a sample of 100 atoms and determine the half life to be 10 days would the half life be any different if you then repeated your measurement using 10,000 atoms? Explain

NO - IT WOULD JUST TAKE LONGER FOR THE SUBSTANCE TO COMPLETELY DECAY.

6.) Thorium-232 decays into Radium-228 with a half-life of 1.9 years. If you start with a 60gram sample of Thorium-232 how much would you have left after 5.7 years?

$$1.9 \overline{) 5.7} = 3 \text{ HALF-LIVES}$$

$$60g \xrightarrow{①} 30g \xrightarrow{②} 15g \xrightarrow{③} 7.5g$$

7.) Lead-212 decays into Bismuth-212 with a half-life of 11 hours. If you start with 200 atoms of Lead-212 how many atoms of Bismuth-212 would you have after 22 hours.

$$11 \overline{) 22} = 2 \text{ HALF-LIVES}$$

$$\text{lead atoms} = 200 \xrightarrow{①} 100 \xrightarrow{②} 50 = \text{lead atoms}, 50 = \text{BISMUTH-212}$$

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LL Leslie



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