

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.

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

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

Worksheet 12 Math Skills Half Life Answers

Albert Kaskel



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explore diverse assessment tools methods for tailoring evaluations to individual learning styles and ways to incorporate your child's unique interests into the process This book emphasizes a positive and supportive learning environment where mistakes are viewed as opportunities for growth and learning is celebrated as a joyful journey We offer practical tips for maintaining organized records tracking progress effectively and providing feedback that motivates and encourages your child Ultimately our goal is to empower you the homeschooling parent to become confident and effective assessors of your child's learning This book is your guide to navigating the assessment landscape with confidence reducing stress and fostering a more enriching and fulfilling homeschooling experience for your family **Christian Home Educators' Curriculum**

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