

1. After 3 half-lives, how much daughter is left? 87.5%

And how much parent? 12.5%

2. Every element decays....

- (a) at its own rate forever
- b. at the same rate
- c. until a certain point in time

excellent

3. Radioactive elements are usually _____

- (a) heavier than they normally are
- b. the weight of the element doesn't matter
- c. lighter than they normally are

(24)

4. The person responsible for figuring out a way to electronically count the amount of disintegrations per second from a radioactive element with an electric powered box?

Geiger

6. How long does it take for 3/4 of a sample of radioactive Carbon C^{14} decay into its daughter element N^{14} ?

11,460

7. How old do we think is the Earth? 5 billion years. What is the

evidence for this age? rock samples from the moon