Name:	Date:	Period:
	Radioactive Decay Practice	
1. What	are the four radioactive isotopes listed on the reference tables?	
	a	
	b	
	c d	
	d	
2. What	is the decay product (daughter) of the following radioactive isotopes?	
	a. Carbon 14 →	
	b. Potassium-40 →	
	c. Uranium-238 →	
	d. Rubidium-87 →	
3. What	t is the half-life of the following radioactive isotopes (not scientific notation)?	
	a. Carbon 14:	
	b. Potassium-40:	
	c. Uranium-238:	
	d. Rubidium-87:	
4 14 0	hand 4.4 man athur walk O half lives	
4. II Car	bon-14 goes through 2 half-lives	
	a. How many years have gone by?	
	b. What percentage of the original mass will remain?	
5. If Pota	assium-40 goes through 3 half-lives	
	a. How many years have gone by?	
	b. What percentage of the original mass will remain?	
6. If you	begin with a 400 gram sample of Rubidium-87 and only 100 grams remain	
	a. How many half-lives have gone by?	
	b. How old is the sample?	
7 If 40 I	Expenses of a 100 sound obunit of Corbon 14 remain	
/. II 12.3	5 pounds of a 100 pound chunk of Carbon-14 remain  a. How many half-lives have gone by?	
	b. How old is the sample?	
	b. How old is the sample?	
8. Which	n radioactive isotope would be best used in dating the following items:	
	a. A buried tree stump:	
	b. The oldest known rocks on Earth:	
9. Why \	would Carbon dating not be a useful way to date Coelopyhsis fossils?	