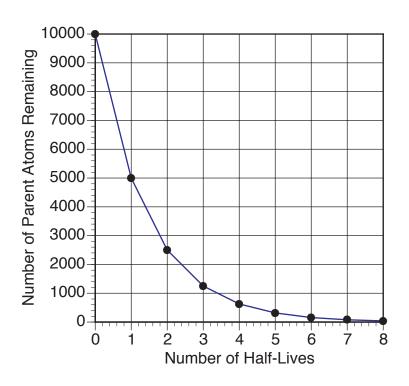
Laboratory Key #07 - Geologic Time

	Exercise 1	Exercise 2	
youngest>	L (intrusion) J I unconformity tilt H	youngest>	K (intrusion) L (intrusion) J (Granite) Fault N I H
	G		G
	F		unconformity
	M (fault)		F
	E		Fault M
	D		E
	C		D
	unconformity		C
	K (intrusion)		В
	В	oldest>	A
oldest>	A		

_	0.1.1011	40.000
1.	0 half lives	10,000 atoms
	1 half lives	5,000 atoms
	2 half lives	2,500 atoms
	3 half lives	1,250 atoms
	4 half lives	625 atoms
	5 half lives	313 atoms
	6 half lives	156 atoms
	7 half lives	78 atoms
	8 half lives	39 atoms



- 2. 0.4 Half Lives; 0.4 half lives X 5730 years = 2292 years
- 3. 1.4 half lives; 1.4 half lives X 713 million years = 998 million years
- 4. No, with its short half life, there would be no carbon-14 left to measure
- 5. No, with its long half live virtually no uranium 238 would decay to lead
- 6. 1.3 to 1.4 Half Lives or 927 to 998 Ma
- 7. (b) Proterozoic
- 8. 0.2 to 0.3 Half Lives or 260 to 390 Ma
- 9. (c) Paleozoic
- 10. 0.2 Half Lives or 140 Ma
- 11. (d) Mesozoic
- 12. Basalt L and Layers J and I..Mesozoic

Layers C to H....Paleozoic

Granite K and Layers A and B.Proterozoic