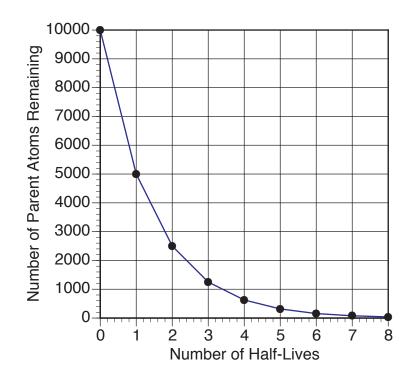
Laboratory Key #11 - Geologic Time

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

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 4.5 billion years = 6.3 billion 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 Half Lives or 927 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