

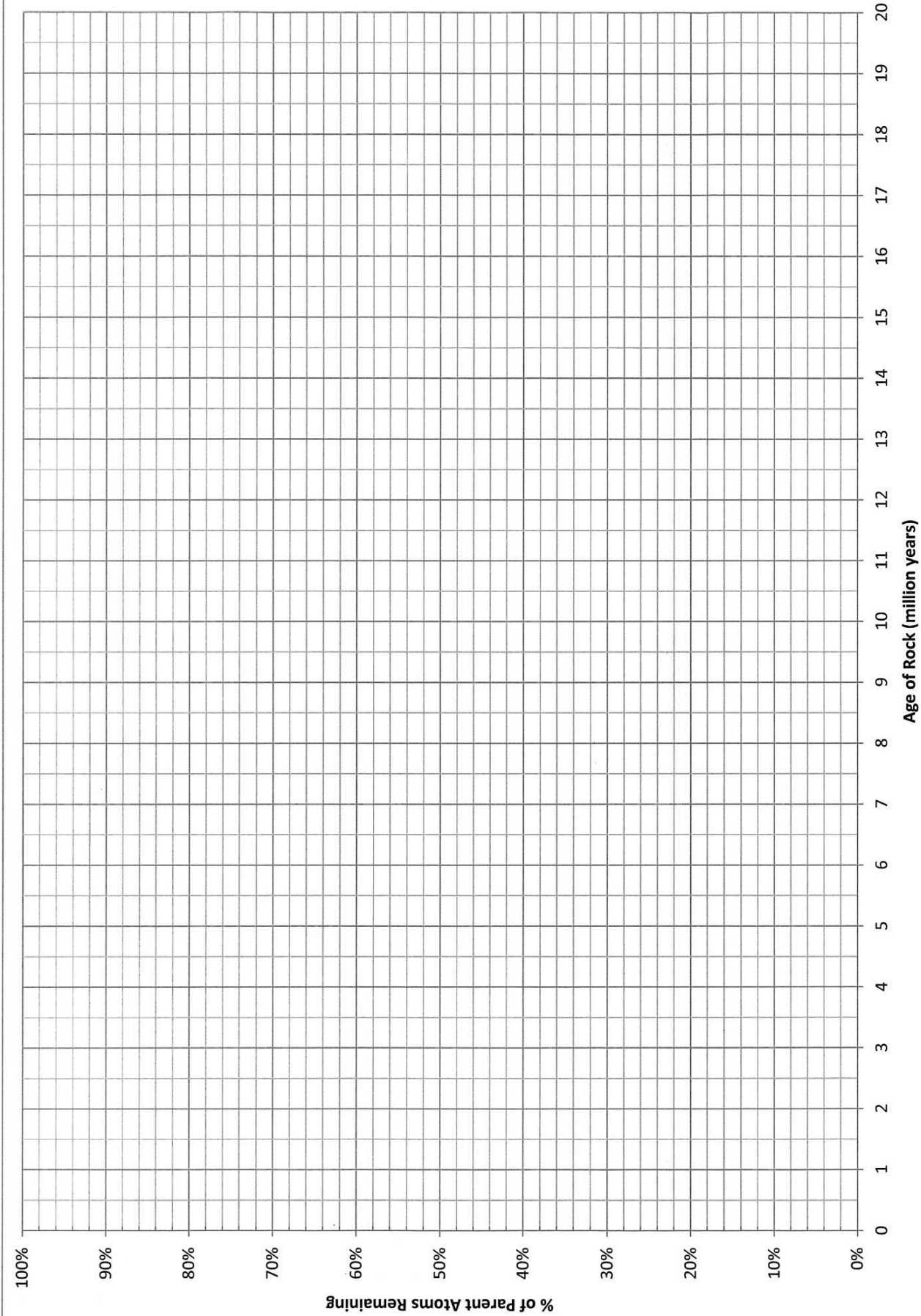
Use the diagram on the top left to answer questions 1-10

1. Which sample is barely older than M? \_\_\_\_\_
2. Which sample is barely older than E? \_\_\_\_\_
3. Which sample is barely older than D? \_\_\_\_\_
4. Which sample is barely older than I? \_\_\_\_\_
5. Which sample is barely older than N? \_\_\_\_\_
6. Which sample is barely younger than M? \_\_\_\_\_
7. Which sample is barely younger than E? \_\_\_\_\_
8. Which sample is barely younger than D? \_\_\_\_\_
9. Which sample is barely younger than I? \_\_\_\_\_
10. Which sample is barely younger than N? \_\_\_\_\_

Use the information below and the graph on the back to choose the correct rock ages. In order to complete the graph, you need to know that the half life of the radioactive parent atoms is **5 million years**.

Sample	Parent Atoms	Daughter Atoms	% of Parents remaining	Age of rock in Millions of years												
				0-2	2-4	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20			
W	20	138														
V	13	66														
G	25	62														
H	25	13														
D	80	12														
F	36	37														
R	16	114														
M	15	25														
U	14	134														
J	32	113														

Sample or Event	Age of rock in Millions of years									
N	0-4	2-6	4-8	6-10	8-12	10-14	12-16	14-18	16-20	
L	0-4	2-6	4-8	6-10	8-12	10-14	12-16	14-18	16-20	
Appearance of fault in diagram 1 (left diagram)	0-4	2-6	4-8	6-10	8-12	10-14	12-16	14-18	16-20	
K	0-4	2-6	4-8	6-10	8-12	10-14	12-16	14-18	16-20	
E	0-4	2-6	4-8	6-10	8-12	10-14	12-16	14-18	16-20	



100%

90%

80%

70%

60%

50%

40%

30%

20%

10%

0%

% of Parent Atoms Remaining

0

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

Age of Rock (million years)