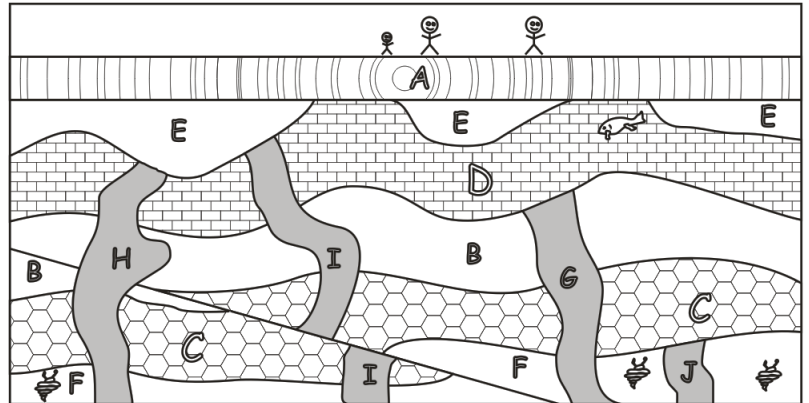


Organize the lettered rock samples from oldest to youngest. Then make a mark where the earthquake occurred in the sequence. The **half-life of the radioactive atoms in these samples is 6 million years.**

Oldest							Newest		

- Sample J contains 10 parent atoms and 53 daughter atoms.
 - What percentage of those atoms are parent atoms? (approximately)
 16% 26% 36% 46% 56%
 - Which of the following is closest to the age of Sample J?
 1my 4my 7my 10my 13my 16my



- Sample H contains 23 parent atoms and 14 daughter atoms.
 - What percentage of those atoms are parent atoms?
 22% 32% 42% 52% 62%
 - Which of the following is closest to the age of Sample H?
 1my 4my 7my 10my 13my 16my

- Sample I contains 20 parent atoms and 43 daughter atoms.
 - What percentage of those atoms are parent atoms?
 12% 22% 32% 42% 52%
 - Which of the following is closest to the age of Sample I?
 1my 4my 7my 10my 13my 16my

- Sample G contains 50 parent atoms and 174 daughter atoms.
 - What percentage of those atoms are parent atoms? 12% 22% 32% 42% 52%
 - Which of the following is closest to the age of Sample G?
 1my 4my 7my 10my 13my 16my

- How many years ago did the Earthquake create the fault in the top diagram?
 1-4my 4-10my 10-13my 13-16my Older than 16my

- The diagram on the right shows rock samples from another location on Earth. Choose the most likely age range for layer K, in that diagram.
 1-4my 4--10my 10-13my 13-16my Older than 16my

