

6 Determining Geologic Age Summary Report Assignments

Determine the sequence of geologic events that occurred at the hypothetical illustration in figure 3. List your answers from oldest to youngest in the space provided by the figure. Letters M and N are faults J, K, and L are igneous intrusions, and all other layers are sedimentary rocks.

The following questions refer to figure 3.

a. What type of unconformity separates layer G from F? Disconformity

b. Which law, principle, or doctrine of relative dating did you apply to determine that rock layer G is older than layer H? Principle of superposition

c. Which law, principle, or doctrine of relative dating did you apply to determine that fault M is younger than rock layer E? Principle of cross-cutting relationships

d. Explain in your own words why you know that fault N is older than igneous intrusion J. Intrusion J is cutting across fault N. Principle of cross cutting fault N is older

Name: _____
Date: _____

e. If rock layer F is 150 million years old and layer E is 160 million years old, what is the approximate age of fault M?
130 to 160 million years

f. The analysis of samples from layer G, F, and C resulted in the following proportions of parent isotope to daughter isotope. How many half-lives have passed for each?

Layer	Parent	Daughter	% Lives
G	50%	50%	_____
F	25%	75%	_____
C	12.5%	87.5%	_____

g. If the half-life of the parent isotope in question 2.f is known to be 75 million years, what are the ages of the layers?

G _____ F _____ C _____

h. Using your answers from question 2.g and Figure 1, what period of time is nearly completely missing between rock layers G & F?

Period _____

Youngest _____

Oldest _____

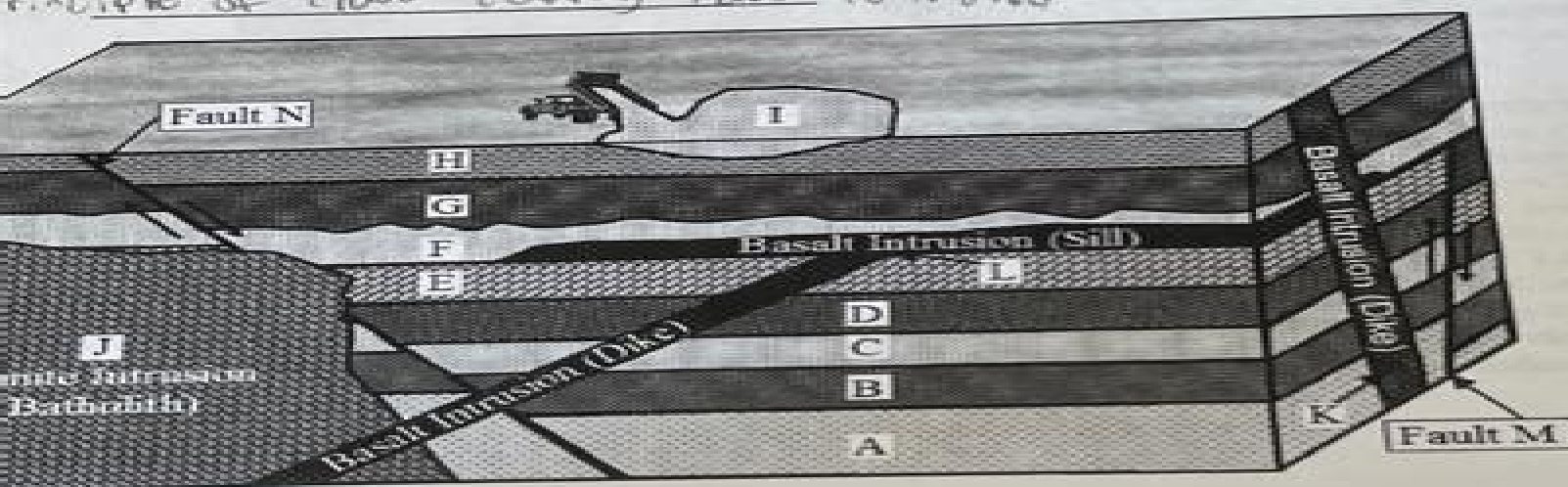


Figure 3

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D Keegan



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