

# 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 \_\_\_\_\_

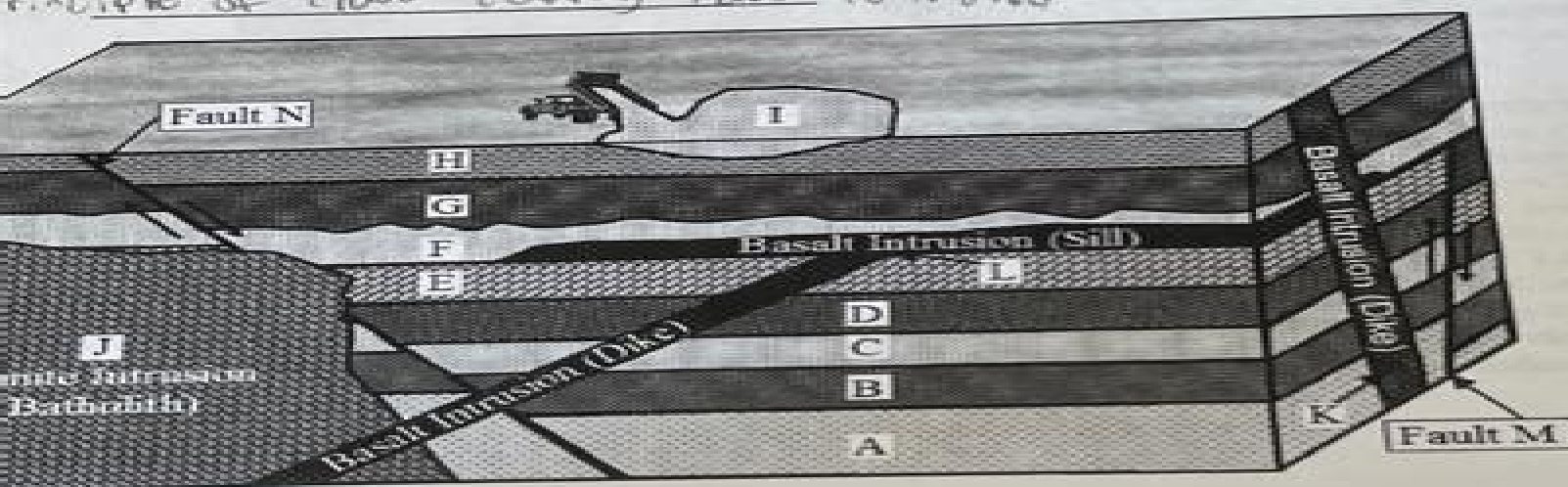


Figure 3

# Determining Geologic Ages Exercise 6 Answers

**Peter L. Kresan, Reed Mencke**



## **Determining Geologic Ages Exercise 6 Answers:**

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**A Laboratory Manual of Dynamic and Structural Geology** Kirtley Fletcher Mather, Ralph Gordon Lusk, 1929 *Understanding Earth Student Study Guide* Peter L. Kresan, Reed Mencke, 2006-05-03 The guide helps students prepare for lectures and exams with a heavy emphasis on utilizing the book's Web resources

**Student Study Guide** Peter L. Kresan, Reed Mencke, Frank Press, Raymond Siever, 2003-09-25 This reconceptualization of the text Understanding Earth reflects the fundamental changes in the field of physical geology over the past several years

**Report of the Superintendent of Public Instruction** Michigan. Department of Public Instruction, 1889 **Report of the superintendent ...** MI Dept Public Instruction, 1889 *Preparation for High School Equivalency in Science* Philip J. Gearing, Craig Conrad, 1978 *Documents Accompanying the Journal of the House of Representatives* Michigan, 1889

**Laboratory Manual in Physical Geology** American Geological Institute, 1997 This Laboratory Manual in Physical Geology is a richly illustrated user friendly laboratory manual for teaching introductory geology and geoscience Annual Report of the Superintendent of Public Instruction of the State of Michigan Michigan. Department of Public Instruction, 1889

*Joint Documents of the State of Michigan* Michigan, 1889 *Geochronology and Thermochronology* Peter W. Reiners, Richard W. Carlson, Paul R. Renne, Kari M. Cooper, Darryl E. Granger, Noah M. McLean, Blair Schoene, 2017-12-26 This book is a welcome introduction and reference for users and innovators in geochronology It provides modern perspectives on the current state of the art in most of the principal areas of geochronology and thermochronology while recognizing that they are changing at a fast pace It emphasizes fundamentals and systematics historical perspective analytical methods data interpretation and some applications chosen from the literature This book complements existing coverage by expanding on those parts of isotope geochemistry that are concerned with dates and rates and insights into Earth and planetary science that come from temporal perspectives Geochronology and Thermochronology offers chapters covering Foundations of Radioisotopic Dating Analytical Methods Interpretational Approaches Making Sense of Data

Diffusion and Thermochronologic Interpretations Rb Sr Sm Nd Lu Hf Re Os and Pt Os U Th Pb Geochronology and Thermochronology The K Ar and  $^{40}\text{Ar}$   $^{39}\text{Ar}$  Systems Radiation damage Methods of Geo and Thermochronology The U Th He System Uranium series Geochronology Cosmogenic Nuclides and Extinct Radionuclide Chronology Offers a foundation for understanding each of the methods and for illuminating directions that will be important in the near future Presents the fundamentals perspectives and opportunities in modern geochronology in a way that inspires further innovation creative technique development and applications Provides references to rapidly evolving topics that will enable readers to pursue future developments Geochronology and Thermochronology is designed for graduate and upper level undergraduate students with a solid background in mathematics geochemistry and geology Geochronology and Thermochronology is an excellent textbook that delivers on the difficult balance between having an appropriate level of detail to be useful for an upper undergraduate to graduate level class or research reference text without being too esoteric for a more general audience with content and descriptions that are understandable and enlightening to the non specialist I would recommend this textbook for anyone interested in the history principles and mechanics of geochronology and thermochronology American Mineralogist 2021 Read an interview with the editors to find out more <https://eos.org/editors-vox/the-science-of-dates-and-rates>

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**Government Reports Announcements & Index** , 1991      Scientific American , 1915      **New England Journal of Education** Thomas Williams Bicknell, Albert Edward Winship, Anson Wood Belding, 1878      Century Path , 1909

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