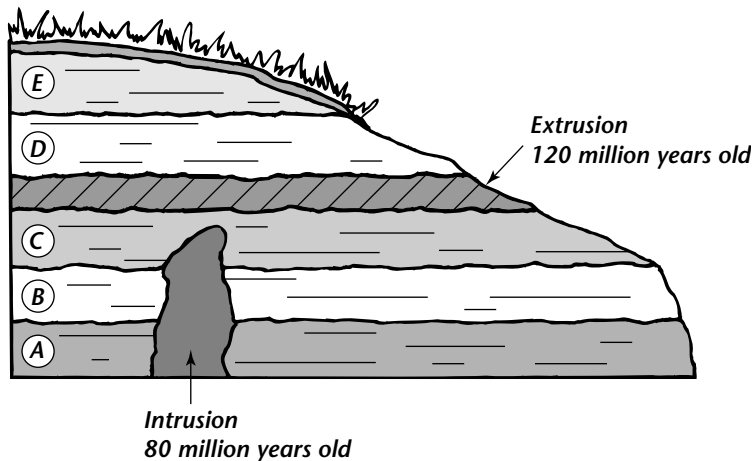


A Trip Through Geologic Time ▪ *Review and Reinforce*

Radioactive Dating of Rocks

Understanding Main Ideas

Use the figure below to answer questions 1–3. Write your answers on a separate sheet of paper.



1. Can geologists use radioactive dating to find the absolute ages of sedimentary layers A, B, C, D, and E? Explain why or why not.
2. Can geologists use radioactive dating to find the absolute ages of the extrusion or the intrusion? Explain why or why not.
3. What is the age of rock layer C? Explain how you determined its age.

Building Vocabulary

Fill in the blank to complete each statement.

4. When all the atoms of a particular type of matter are the same, the matter is a(n) _____.
5. The time it takes for half of the atoms in a sample of a radioactive element to decay is called the element's _____.
6. All matter is made of tiny particles called _____.
7. During _____, the atoms of one element break down to form atoms of another element.