

Use with textbook pages 305–309.

Decay curves

1. Use the decay curve to answer the questions.

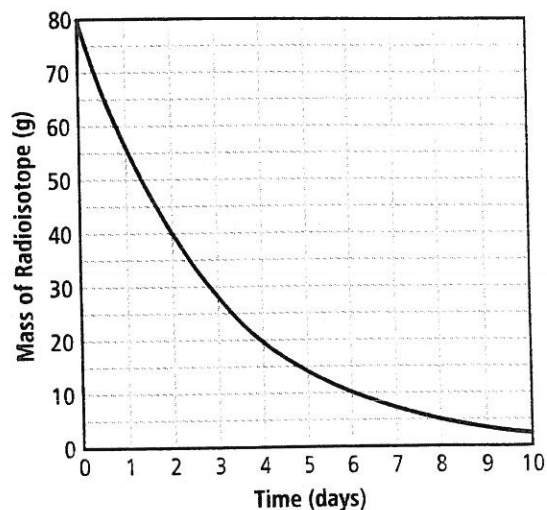
(a) What is the half-life of the isotope?

(b) How much of the parent isotope remains after 4 days? _____

(c) How much of the daughter isotope is present after 6 days? _____

(d) What fraction of the parent isotope remains after 8 days? _____

(e) How long does it take for the parent isotope to decay to 5 g? _____



2. Use the decay curve to answer the questions.

(a) What is the common isotope pair for this decay curve? _____

(b) What is the half-life of the parent isotope?

(c) What does the intersection of the two lines represent? _____

(d) What fraction of the daughter isotope is present after 5.2 billion years have passed?

(e) What is the ratio of parent isotope to daughter isotope after 2.6 billion years have passed? _____

