

- 30** Nuclide X decays with a half-life of 15 days to stable nuclide Y. At a particular time t , the ratio of the number of nuclides X to the number of nuclides Y in a sample is 1 : 1.

How long after time t will the ratio in the sample be 1 : 3?

A 15 days

B 30 days

C 45 days

D 60 days