30 Antimony-124 undergoes radioactive decay, with a half-life of 60 days, to become tin-124. Tin-124 is stable.

Initially, a sample of antimony-124 contains no tin-124.

After what period of time will the ratio $\dfrac{\text{number of tin-124 nuclei}}{\text{number of antimony-124 nuclei}}$ equal 6?

A	between 60 days and 120 days	**C**	between 120 days and 180 days
B	120 days	**D**	180 days