

26. (a) Since $60\text{ y} = 2(30\text{ y}) = 2T_{1/2}$, the fraction left is $2^{-2} = 1/4$.
(b) Since $90\text{ y} = 3(30\text{ y}) = 3T_{1/2}$, the fraction that remains is $2^{-3} = 1/8$.