

The initial amount $A = 120$, the time $t = 24$, and the half-life $h = 8$. Substitute into the formula and simplify:

$$R = 120 \left(\frac{1}{2} \right)^{\frac{24}{8}} = 120 \left(\frac{1}{2} \right)^3 = 120 \left(\frac{1}{8} \right) = 15$$