

Substitute 3.6 for  $R$  in the formula:  $3.6 = \log\left(\frac{A}{A_0}\right)$

Rewrite as an exponential equation:  $10^{3.6} = \frac{A}{A_0}$

Use a calculator and multiply both sides by  $A_0$ :  $A \approx 3,981A_0$