Let n be the number of frames in the animation. Let s be the starting scale and e the ending scale of the animation. Let x_i for $i \in \{1, 2, ..., n\}$ be the scale of each frame of animation. Let c be some constant we want to find, which is the ratio between consecutive frames. We want these values to have the following relationships,

$$\begin{aligned}
\frac{x_{i+1}}{x_i} = c \quad \forall\, i \in \{1, ..., n-1\} &\qquad \text{constant ratio between consecutive frames} \\
x_1 = s &\qquad \text{first frame equals starting scale} \\
x_n = e &\qquad \text{last frame equals ending scale.}
\end{aligned}$$

Using these properties we get

$$\begin{aligned}
\frac{x_2}{x_1} &= \frac{x_2}{s} = c \\
x_2 &= cs \\
\frac{x_3}{x_2} &= c \\
x_3 &= x_2 c = c^2 s \\
x_4 &= x_3 c = c^3 s \\
&\vdots \\
x_i &= c^{i-1} s \\
&\vdots \\
x_n &= e = c^{n-1} s
\end{aligned}$$

Leading us to a formula for c.

$$\begin{aligned}
c^{n-1} &= \frac{e}{s} \\
c &= \left(\frac{e}{s}\right)^{\frac{1}{n-1}}
\end{aligned}$$

So that using $x_i = c^{i-1} s$ we get the equation for the scale of a frame

$$x_i = s \left(\frac{e}{s}\right)^{\frac{i-1}{n-1}}.$$