Sizing Up Sequoias [Problem \#3068]


A sequoia tree seed weighs only $1 /\left(5^{*} 10^{\wedge} 3\right)$ of an ounce. If a mature sequoia tree weighs an average of $2.16^{\star 1} 0^{\wedge} 11$ times as much, how much does the average mature sequoia weigh?

Remember to give the weight in a reasonable Reit


Extra: |fl weigh 100 lbs , how many seeds would it take to equal my weight? How many of me would it take to equal the weight of the tree?

$$
\begin{aligned}
& \text { © 1994-2014 Drexel University } \\
& {\left[\begin{array}{r}
1602=1 \text { pound } \\
200016 s=1 \text { ton }
\end{array}\right]} \\
& 4.32 \times 10^{7} \\
& \frac{1}{5000} \times \frac{2}{2}=\frac{2}{10000} \frac{2}{104} \\
& 2 \times 10^{-4} \\
& .2 \times 10^{-3} \\
& \begin{aligned}
\frac{2.6 .6 \times 10^{10}}{5 \times 10^{3}} & =\frac{4.32 \times 10^{7} \text { ounces }}{1.6 \times 10^{3}} \\
& -\frac{2.7 \times 10^{6}}{2 \times 10^{3}}=
\end{aligned} \\
& \text { 2,700,000 l bs } \\
& =1.35 \times 10^{3} \text { font } \\
& 1350 \text { tons }
\end{aligned}
$$

