## Answer on Question \# 41974- Math - Algebra

Suppose that you have a huge cucumber that is $99 \%$ water (by weight). The cucumber weighs 100 pounds. If the water content of the cucumber evaporates until it is $98 \%$ water (by weight), then approximately how much does the cucumber now weigh?
a) 99 pounds
b) 96 pounds
c) 95 pounds
d) 50 pounds
e) 49 pounds
f) 98 pounds
g) 25 pounds

## Solution:

Since the cucumber weighs 100 pounds and it consists $99 \%$ of water (by weight), then 99 pounds water is in cucumber and only 1 pound of something else. If the water content of the cucumber evaporates until it is $98 \%$ water (by weight), then we get that 1 pound of something else now is $2 \%$. Hence, the whole cucumber weight (100\%) is 50 pounds.

$$
1 \text { pound - 2\% }
$$

$x$ pounds - 100\%
Hence, $x=\frac{100 \% * 1}{2}=50$ pounds.

Answer: d) 50 pounds.

