

**Answer on Question #54437 – Chemistry – General chemistry**

**Question:**

A. How many grams of 5% hydrocortisone (HC) cream should be mixed with an ointment base to prepare 500 gms of 1% HC.

B. How much of the ointment base will be needed for the previous problem?

**Answer. Let  $x$  be the amount of 5% hydrocortisone.**

A.  $\frac{x \cdot 0.05}{500} = 0.01 \rightarrow x = 500 * \frac{0.01}{0.05} = 100 \text{ g.}$

B.  $m = 500 - x = 500 - 100 = 400 \text{ g.}$