

**“Answer on Question #59376, Chemistry / General Chemistry”**

How many g of  $\text{Ca(OH)}_{2(s)}$  are needed to make 1 L of a 1 M solution of  $\text{Ca(OH)}_{2(aq)}$ ?

***Cm – molarity***

***M – molar mass***

$$Cm = 1 M$$

$$M(\text{Ca(OH)}_2) = 74\text{g/mol}$$

$$V = 1L$$

$$Cm = \frac{n}{V}$$

$$n = \frac{m}{M}$$

$$Cm = \frac{m}{M \cdot V}$$

$$m = Cm \cdot M \cdot V$$

$$m = 1M \cdot 74\text{g/mol} \cdot 1L = 74\text{g}$$