How many grams of lithium hydroxide will be produced if 0.38 grams of lithium nitride reacts according. to the following equation: li3n + 3h2o =3lioh + nh3.

Solution:

$$M(JiOH) - ?$$

$$M(JiOH) = 0.389$$

$$J_{3}W = 0.389$$

$$J_{3}W + 3H_{2}O = 3JiOH + NH_{3}$$

$$n(J_{3}N) = \frac{0.389}{34.839} = 0,0109 \text{ moles}$$

$$Then, n(JiOH) = 3 \times 0,0109 \text{ neoles} = 0,0327 \text{ neoles}$$

$$M(JiOH) = 0.0327 \text{ neoles} \times 23.959/\text{ neoles} = 0,78329 \sim 0.789.$$

$$Answer: M(JiOH) = 0.789.$$

Answer provided by www.AssignmentExpert.com