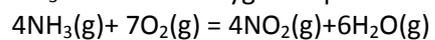


#36821, Chemistry, Other

20 moles of  $\text{NH}_3$  are needed to produce how many moles of  $\text{H}_2\text{O}$ .

**Solution:**

$\text{NH}_3$  reacts with oxygen to produce  $\text{H}_2\text{O}$  as follows:



According to equation 4 moles of  $\text{NH}_3$  are needed to produce 6 moles of  $\text{H}_2\text{O}$ , so 20 moles of  $\text{NH}_3$

produce  $\frac{20 \cdot 6}{4} = 30$  moles of  $\text{H}_2\text{O}$ .

**Answer:** 30 moles of  $\text{H}_2\text{O}$ .