

16. 6×10^{23} molecules $\text{N}_2 = \underline{1}$ moles $\text{N}_2 = \underline{3}$ moles $\text{H}_2 = \underline{18 \times 10^{23}}$ molecules H_2
17. 3×10^{23} molecules $\text{N}_2 = \underline{0.5}$ moles $\text{N}_2 = \underline{1}$ moles $\text{NH}_3 = \underline{6 \times 10^{23}}$ molecules NH_3
18. 36×10^{23} molecules $\text{H}_2 = \underline{6}$ moles $\text{H}_2 = \underline{4}$ moles $\text{NH}_3 = \underline{24 \times 10^{23}}$ molecules NH_3
19. 60×10^{23} molecules $\text{N}_2 = \underline{10}$ moles $\text{N}_2 = \underline{30}$ moles $\text{H}_2 = \underline{180 \times 10^{23}}$ molecules H_2
20. 15×10^{23} molecules $\text{N}_2 = \underline{2.5}$ moles $\text{N}_2 = \underline{7.5}$ moles $\text{H}_2 = \underline{45 \times 10^{23}}$ molecules H_2
21. $56\text{g } \text{N}_2 = \underline{12}$ g H_2
22. $44.8 \text{ L } \text{N}_2 = \underline{89.6}$ L NH_3
23. 12×10^{23} molecules $\text{N}_2 = \underline{36 \times 10^{23}}$ molecules H_2
2 mole 6 mole