

1.  $\text{Pb} + \text{HCl} \rightarrow \text{PbCl}_2 + \text{H}_2$  ; 0.72mol HCl
2. 1.0mol  $\text{HNO}_3$
3.  $\text{C} + 2\text{ZnO} \rightarrow 2\text{Zn} + \text{CO}_2$  ; 0.19mol  $\text{CO}_2$
4. 1.4mol NaBr
5.  $2\text{P} + 3\text{Br}_2 \rightarrow 2\text{PBr}_3$  ; 0.52mol  $\text{PBr}_3$
6. 0.88mol  $\text{H}_2$
7. 1.9mol  $\text{O}_2$
8.  $\text{N}_2 + 3\text{H}_2 \rightarrow 2\text{NH}_3$  ; 0.24mol  $\text{N}_2$
9.  $4\text{Fe} + 3\text{O}_2 \rightarrow 2\text{Fe}_2\text{O}_3$  ; 0.090mol  $\text{Fe}_2\text{O}_3$
10. 0.940mol  $\text{H}_2\text{O}$