Problem 6.59, page 257

$$4NH_{3}(g) + 3O_{2}(g) \xrightarrow{c_{M}} 2N_{2}(g) + 6H_{2}O(g); AH = -1267KJ$$

Calculate the enthalpy change on burning 35.8 g ammonia in the above reaction.

- 1 Find moles of ammonia. Use formula weight of ammonia
- 2 Change moles of ammonia to enthalpy. Use thermochemical equation.

NH3: N: 1+14.01 H:3x1.006