Practice	- Stoich	- Particle	/Moles
Practice	- SWILII	- rai ucie	/ INIOIG2

Name			hr

Fill out each ISE table and find the limiting reactant, amount of excess reactant, and amount of each product.

A) Fe(OH)₃ and 60 H₂CO₃ particles are available to react. Determine LR, excess and products in particles.

1. What is the limiting reactant? H_2 Explain (or show work) how you determined the LR.

H2CO3 has less particles + is consumed at a faster rate.

(130 Fe (04)3 to 400 = 390 HOH 160 H2 CO3 16H2O = 120 HOH

Show your work in finding proportions for the ISE table:

- 2. How much excess reactant is left over? 90 Fe (0H) =
- 3. How much of each product is produced? 120 HOH and 20 Fez (CO3)2

B) 3.4 moles of C₂H₂ and 9.2 moles of O₂ are available to react. Show your work.

$$2 C_{2}H_{2} + 5 O_{2} \rightarrow 4 CO_{2} + 2 H_{2}O$$

$$1 \quad 3.4 \quad 9.2 \quad \bigcirc \quad \bigcirc$$

$$5 \quad -3.4 \quad -8.5 \quad +6.8 \quad +3.4$$

$$E \quad \bigcirc \quad 0.7 \quad 6.8 \quad 3.4$$

What is the limiting reactant? C2 H3

Explain (or show work) how you determined the LR.

18.4 C2H2 | 4 CO2 = 6.8 CO2 = less 9.202 4 CO2 = 7.4 CO2

Show your work in finding proportions for the ISE table:

- 1. How much excess reactant is left over (in moles)? 0.7 mol 02
- 2. How much of each product is produced (in moles)? L. 8 mol CO2 and 3.4 mol +hO