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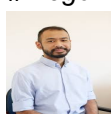
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so many fake sites. this is the first one which worked! Many thanks

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## CHAPTER 9 REVIEW Stoichiometry

### Teacher Notes and Answers

Chapter 9	SECTION 2
<b>SECTION 1</b>	<b>PROBLEMS</b>
<b>SHORT ANSWER</b>	1. 4.5 mol
1. b	2. 209 g
2. d	3. 633 g
3. a	4. 34.8 g
4. c	5. a. 60.2 g
5. a. $2\text{NO}_2(\text{g}) + 3\text{H}_2(\text{g}) \rightarrow 2\text{NH}_3(\text{g}) + 2\text{H}_2\text{O}(\text{l})$	b. 42.1 L
b. 4 mol $\text{NO}_2$ ; 3 mol $\text{O}_2$	6. a. 81 g
c. 15.0 mol	b. 2.9 mol
d. True	c. $1.3 \times 10^3 \text{ g}$
6. a. 28.9 g/mol N	<b>SECTION 3</b>
2.9 g/mol H	<b>PROBLEMS</b>
17.0 g/mol NH <sub>3</sub>	1. 80%
b. 3 mol H <sub>2</sub> ; 1 mol N <sub>2</sub> ; 2 mol NH <sub>3</sub> ; 1 mol N <sub>2</sub>	2. a. 50.2; 2.0 mol
2 mol NH <sub>3</sub> ; 1 mol H <sub>2</sub> ; or their equivalents	b. 8.0 mol
7. a. 1 mol NO <sub>2</sub> ; 2 mol H <sub>2</sub> O	c. 6.4 mol
b. 3 mol NO <sub>2</sub> ; 2 mol NH <sub>3</sub>	3. a. 0.10 mol
c. 8.50 mol	b. HCl
8. a. 4 mol O <sub>2</sub> ; 1 mol C <sub>2</sub> H <sub>6</sub> ; 3 mol CO <sub>2</sub> ; 1 mol C <sub>2</sub> H <sub>6</sub> ; 2 mol H <sub>2</sub> O; 1 mol C <sub>2</sub> H <sub>6</sub>	c. 1.4 g
3 mol CO <sub>2</sub> ; 4 mol O <sub>2</sub> ; 7 mol H <sub>2</sub> O; 4 mol O <sub>2</sub>	4. a. $1.26 \times 10^3 \text{ g}$
2 mol H <sub>2</sub> O; 4 mol CO <sub>2</sub> ; or their equivalents	b. 966 g
b. C <sub>2</sub> H <sub>6</sub> is 0.55; O <sub>2</sub> is 2.0; and CO <sub>2</sub> is 1.5x	c. $6.9 \times 10^3 \text{ L}$

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**Chapter 9 Review Stoichiometry Worksheet Answers**