

JASWAN CACERES DOMINGUEZ / jnc2885

CH 301 DISCUSSION SECTION

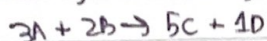
CAC

2/21/22

PRACTICE PROBLEM PACKAGE Pg. 41

UNIT 1 / PART 1

1. 40g of A (60g/mol) + 35g of B (40g/mol) \rightarrow C (37g/mol) + D (75g/mol)



$$\frac{40g}{60g} = 0.67 \text{ mol}, \quad \frac{35g}{40g} = 0.875 \text{ mol}$$

(A) B C D

2. For the reaction #1, what is the max # of g's of D that can be produced?

$$\frac{2}{3} \text{ mol A} \left(\frac{1 \text{ mol D}}{3 \text{ mol A}} \right) \cdot \left(\frac{75g \text{ D}}{1 \text{ mol D}} \right) = 16.67g \text{ D}$$

ANSWER: 16.67g D

3. For the reaction #1, how many g's of excess reactant are left over at the completion of the reaction? 17.4g of B

16.67g D	1 mol D	2 mol B	40g B	= 17.78g
	75g D	1 mol D	1 mol B	

$$35 - 17.78 = 17.22g \text{ of B}$$

17.22g of B

ANSWER: 17.22g of B

Marcus Griner	mag22746	Anderson	CH301
Pranesh Sujja	ps33368	Anderson	CH301
Jake Richards	jcr5337	Sparks	CH301
JASWAN CACERES	jnc2885	Biberdorf	CH301
Jadan Rodriguez	jcr5334	Anderson	CH301
Jalen Veith	jmv3446	Biberdorf	CH301
Mizan Mohammed	mpm3492	Biberdorf	CH301