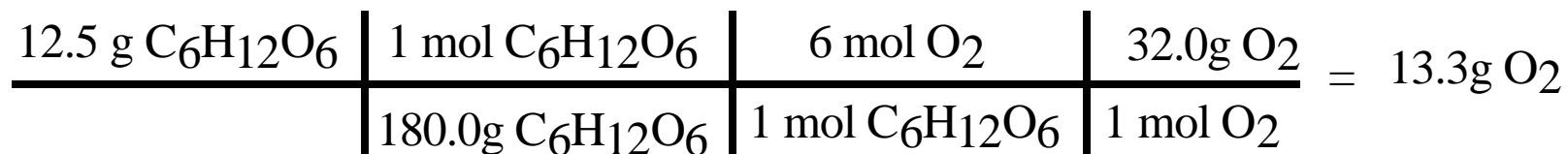
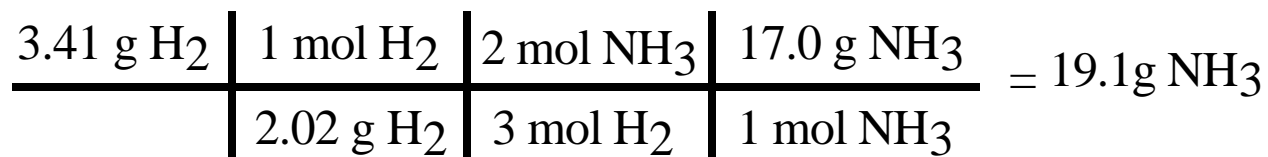


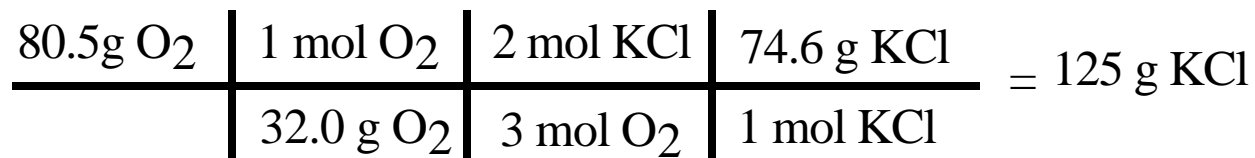
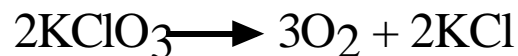
#1



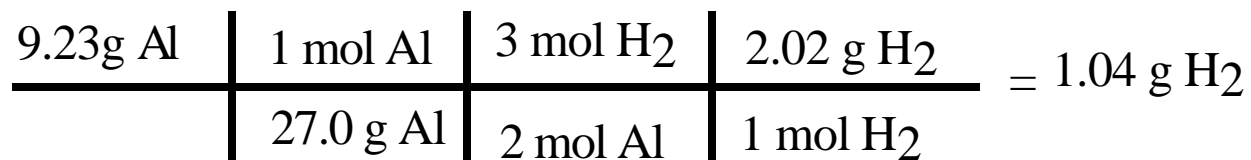
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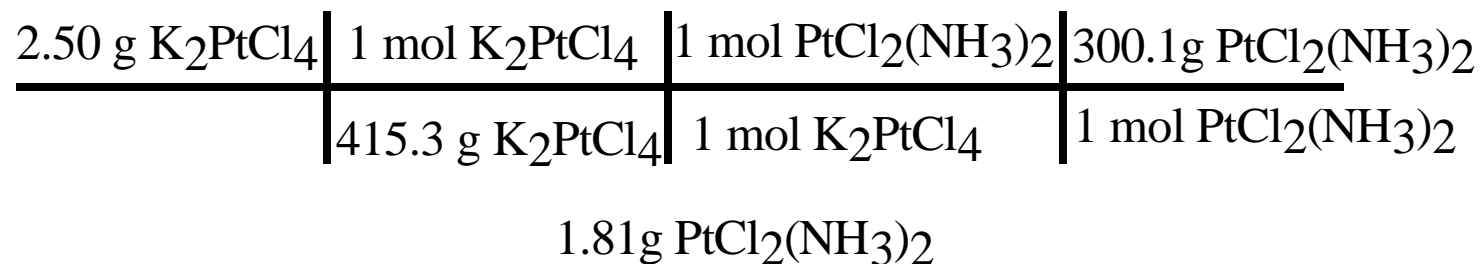
#3



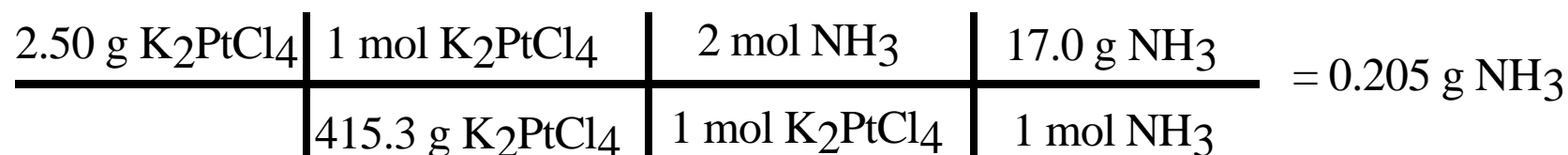
#4



#5



#6



#7

- a. synthesis
- b. double displacement
- c. synthesis
- d. single displacement
- e. combustion

#8

1.44g Na	1 mol Na	2 mol Na ₂ O	62.0 g Na ₂ O	= 1.94 g Na ₂ O
23.0 g Na	4 mol Na	1 mol Na ₂ O		

#9

4.62 kg PbCrO ₄	1000 g PbCrO ₄	1 mol PbCrO ₄	331.2 g Pb(NO ₃) ₂	= 4.73 x 10 ³ g Pb(NO ₃) ₂
1 kg PbCrO ₄	323.2 g PbCrO ₄	1 mol PbCrO ₄	1 mol Pb(NO ₃) ₂	

#10

0.85g Li	1 mol Li	1 mol H ₂	2.0 g H ₂	= 0.12 g H ₂
6.9 g Li	2 mol Li	1 mol H ₂		

#11

0.85g Li	1 mol Li	2 mol LiOH	23.9 LiOH	= 2.9 g LiOH
6.9 g Li	2 mol Li	1 mol LiOH		

#12

192 kg C ₇ H ₁₄	1000 g C ₇ H ₁₄	1 mol C ₇ H ₁₄	14 mol H ₂ O	18.0 g H ₂ O
	1 kg C ₇ H ₁₄	98.0 g C ₇ H ₁₄	2 mol C ₇ H ₁₄	1 mol H ₂ O

$$= 2.47 \times 10^5 \text{ g H}_2\text{O}$$

#13

192 kg C ₇ H ₁₄	1000 g C ₇ H ₁₄	1 mol C ₇ H ₁₄	21 mol O ₂	32.0 g O ₂
	1 kg C ₇ H ₁₄	98.0 g C ₇ H ₁₄	2 mol C ₇ H ₁₄	1 mol O ₂

$$= 6.58 \times 10^5 \text{ g O}_2$$