

1) Заттар массасы.

Берілгені

$$m = 22,8 \text{ г}$$

$$V_{\text{н.м}} = 24,64 \text{ л}$$

$$V_m (\text{АВ}) = 1$$

Шешімі



$$x = \frac{54 \cdot 24,64 \text{ л}}{67,2 \text{ л}} = 19,82 (\text{АВ})$$

 $m_{\text{Borpa}} + m_{\text{AB}}$ 

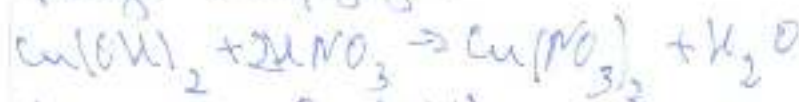
$$x = \frac{123,22 \cdot 25\%}{100\%} = 30,81$$

$$\frac{30,81}{1,185} \approx 26 \text{ л}$$

2) Белгісіз заттар.

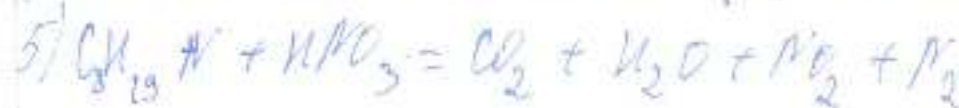
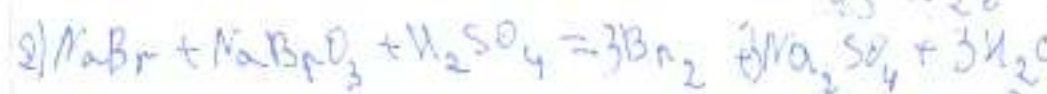
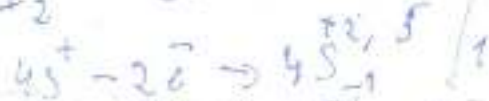
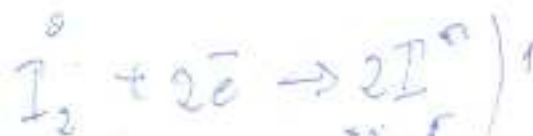
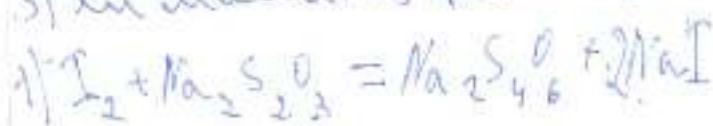
Бер көрсету болса- оңша-сы

А-затты азот элементімен, фосфор, және күмді ретте түзіледі азот оксидіне фосфор тіе және қара түсті ұнтақ зат. Мис өкілі азот элементімен бірігіп және күмді ретте түзіледі.

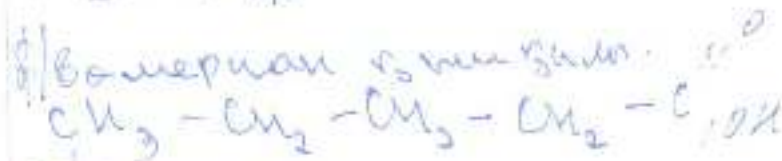
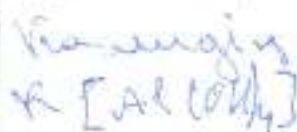
А-затты -  $\text{Cu(OH)}_2$ Б-затты -  $\text{HNO}_3$ В-затты -  $\text{Cu(NO}_3)_2$

Реакция теңестірілуі.  
 $2\text{Cu(NO}_3)_2 \rightarrow 4\text{NO}_2 + \text{O}_2 + 2\text{Cu}$

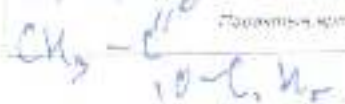
3) Химиялық реакция



4) Бишофит.



8) сірке қышқылы



ҚАЗАҚСТАН РЕСПУБЛИКАСЫНЫҢ БІЛІМ АЛҒА ҚИМДІ ЕТІМІН АМУ МІНІСТІРЛІГІ

Қарағай ауданы.

1-мансарама.

$$1) 22,80 \text{ г} + 24,64 \text{ л} = 47,44 \text{ м.}$$

$$2) 8 + 1,185 \text{ г/мл} = 9,185$$

2-мансарама:

$$1) 4 + 6 = 10$$

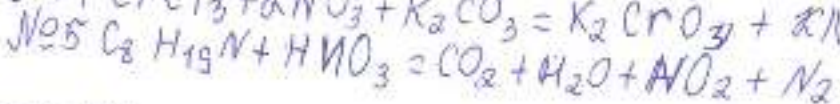
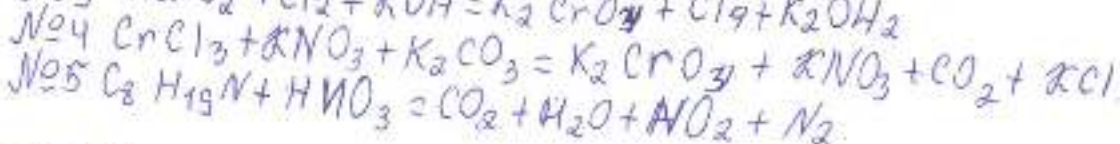
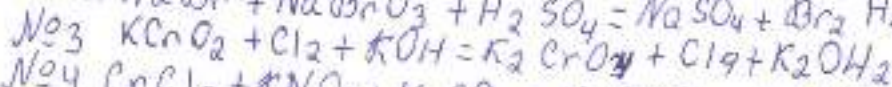
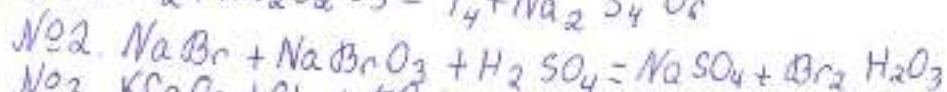
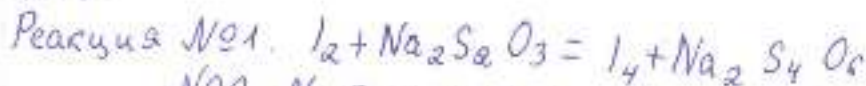
$$2) 0,0032 \text{ г/л} + 1 = 1,0032 \text{ кг/л}$$

$$3) 47,57 + 20 \text{ г} = 67,57 \text{ г.}$$

$$4) 1900 \text{ жерлер}$$

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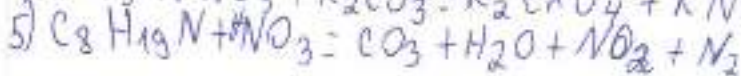
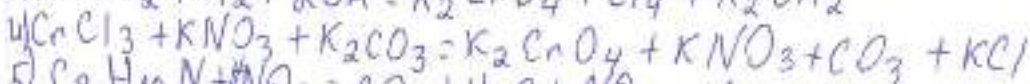
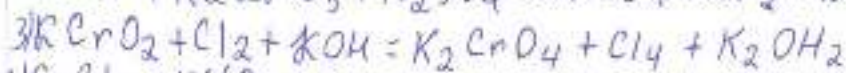
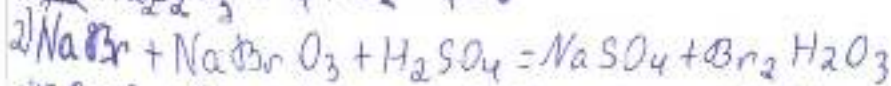
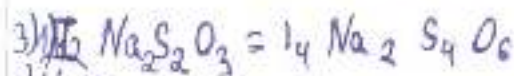
№3



4-тапсырма:

1)  $65,8 + 54,82 = 120,62$

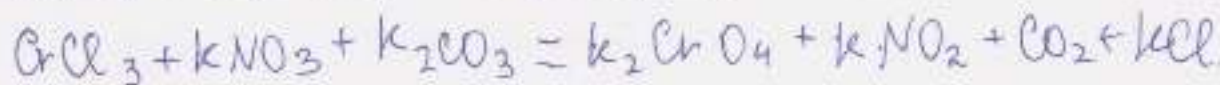
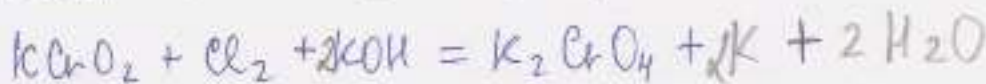
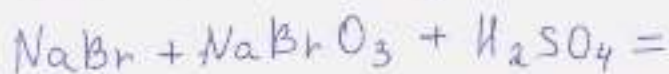
2)  $50 \text{ мл} + 12,0 \text{ мл} = 62 \text{ мл}$



Есеп №1. Заттар қоспасы.

$m(\text{Al}) = 22,80 \text{ г}$	Шешімі 1. $W = ?$
$V(\text{газ}) = 24,64 \text{ л}$	
$n_{\text{Al}} = ?$	
$V = ?$	

Есеп №3. Түрлену реакциялар.



Есеп №4. Бишофит

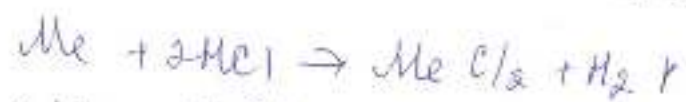
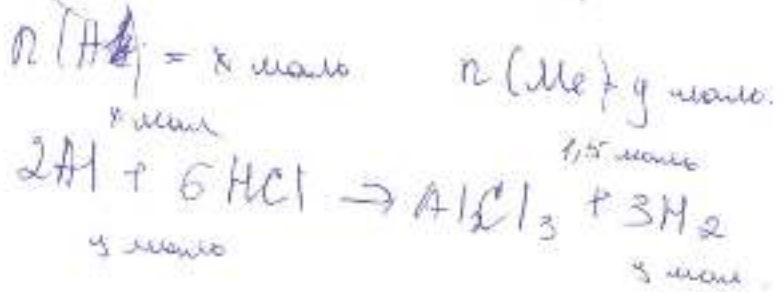
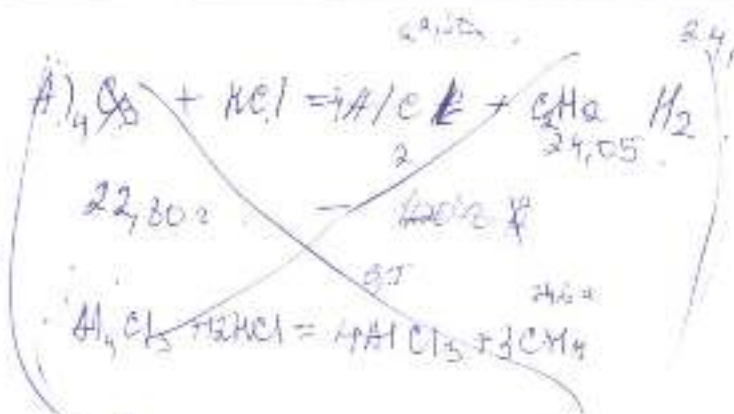
$$1) m(\text{MgCl}) = 100 \text{ г}$$

$$W(\text{Cl}) = ?$$

Есеп №2. Бөлісіз заттар

№1. Хлорид және А металлы сульфидінің анықтауы

$n - (Al) = 22,80 \text{ г}$   
 $V - (H_2) = 24,64 \text{ л}$   
 $\rho_{H_2} = 0,0899 \text{ г/л}$   
 $n(H_2) = 1,25 \cdot n(Al) = 28 \text{ моль}$   
 Т.к.  $w(Al) \rightarrow ?$



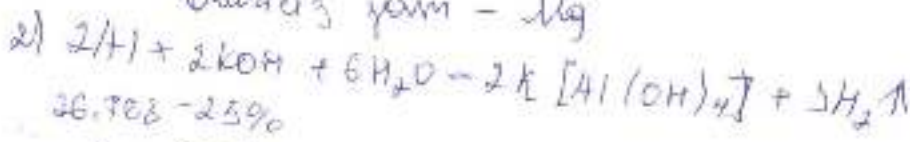
$n(H_2) = \frac{24,64}{22,4} = 1,1 \text{ моль}$

$$\begin{cases} x = 1,25y & (1) \\ 1,5x + y = 1,1 & (2) \end{cases}$$

$$\begin{cases} 1,5(1,25y) + y = 1,1 \\ 1,875y + y = 1,1 \\ 2,875y = 1,1 \\ y = 0,383 \text{ моль} \end{cases}$$

$V = 1,25 \cdot 0,23 = 0,473 \text{ моль}$   
 $m(Al) = 27 \cdot 0,473 = 12,91 \text{ г}$   
 $m(Al) = 22,80 - 12,91 = 9,89 \text{ г}$   
 $w(Al) = \frac{9,89}{22,8} \cdot 100\% = 43,33\%$

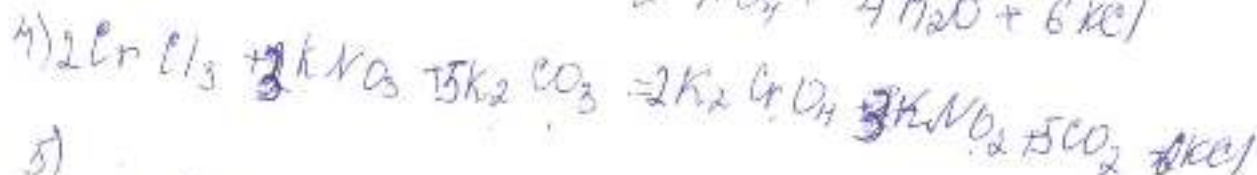
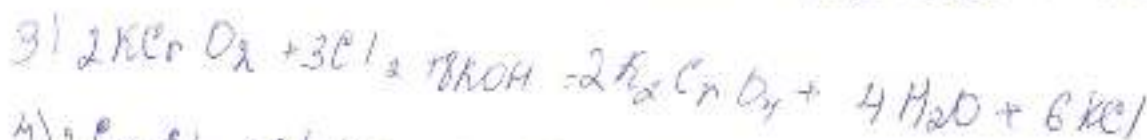
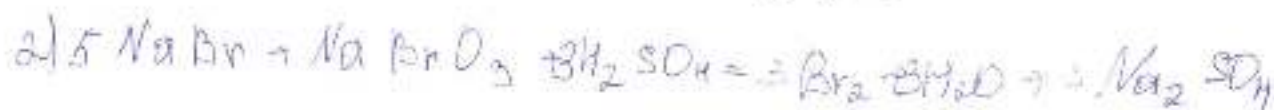
барлығы үшін - Mg



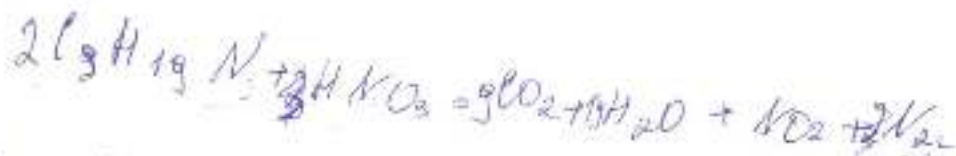
$x = 100\%$   
 $x = 107,07\% \text{ ерімінгі}$

$V(KOH) = \frac{107,07}{1,165} = 90,36 \text{ мл}$

1.3



5)

14. ~~2H<sub>2</sub>~~



$$n(\text{H}) = \frac{m(\text{H})}{M(\text{H})} = \frac{22,4 \text{ г}}{2 \text{ г/моль}} = 11,2 \text{ моль}$$

$$V(\text{O}_2) = 22,4 \text{ л}$$

$$\omega(\text{O}_2) = 25\%$$

$$D = 1,195 \text{ г/л}$$

$$\omega = ?$$

$$V = ?$$

$$n(\text{O}_2) = \frac{22,4 \text{ л}}{22,4 \text{ л/моль}} = 1 \text{ моль}$$

$$x = 1,25 \cdot 0,25 = 0,3125 \text{ моль}$$

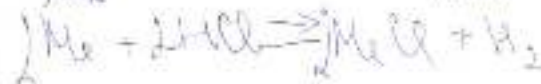
$$m(\text{Al}) = 27 \cdot 0,3125 = 8,4375 \text{ г}$$

$$m(\text{Mg}) = 24 \cdot 0,3125 = 7,5 \text{ г}$$

$$\omega(\text{Mg}) = \frac{7,5}{22,4} \cdot 100\% = 33,47\%$$



$$n(\text{Al}) = x \text{ моль} \quad n(\text{Mg}) = y \text{ моль}$$



$$1,5(1,25y) + y = 1,1$$

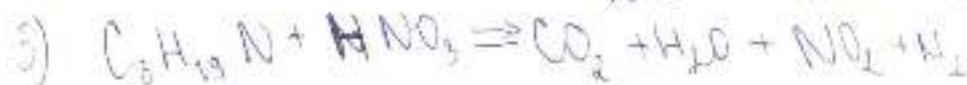
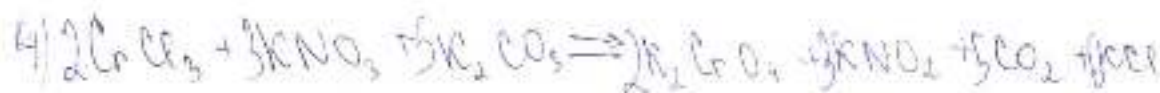
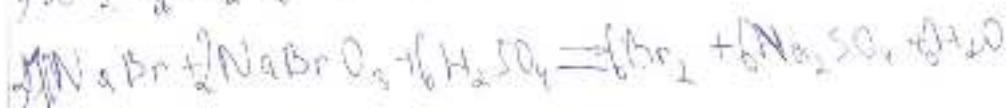
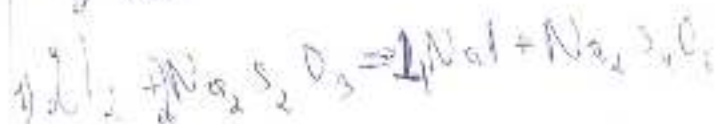
$$1,875y + y = 1,1$$

$$2,875y = 1,1$$

$$y \approx 0,383 \text{ моль}$$

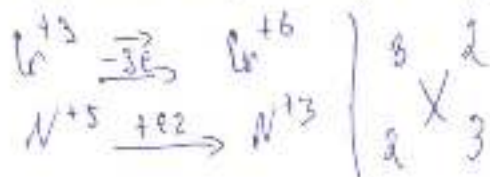
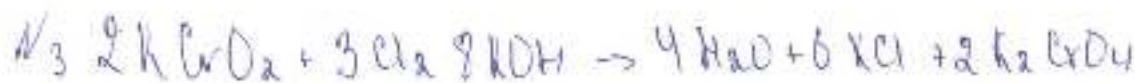
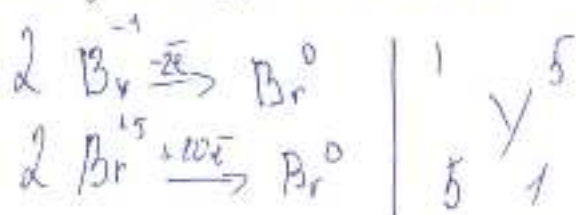
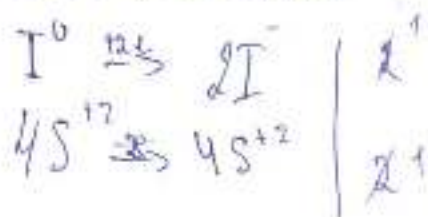
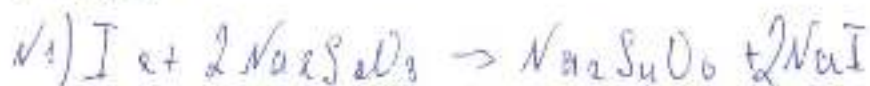
$$\text{Вещица } \text{Zax} = \text{Mg}$$

3. ааа





№3 есен



№4 есен