

23<sup>5</sup> из 28<sup>5</sup>

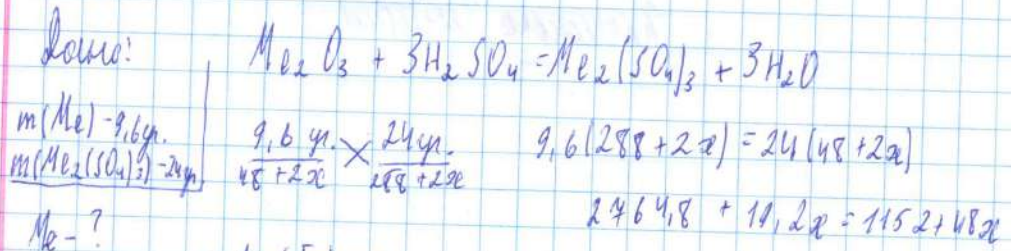
Вероятная ошибка  
инженеров по решению  
ученика 9 класса «А»  
Качаева Рената

1.  $3 \text{Ba}_3(\text{PO}_4)_2$  1,5
2. 1 суммарная клетка 1,5
3. 2,11 1,5
4.  $3 \text{O}, \text{O}_3$  1,5
5.  $3 \text{p} = 19 \quad n = 21$  1,5
6.  $4 \text{Na}_2\text{S} + \text{Pb}(\text{NO}_3)_2$  1,5
7.  $1/60$  - 0,5

Задача

№1.

Дано:



$$\frac{m(\text{Me}) - 9,6 \text{ г.}}{m(\text{Me}_2(\text{SO}_4)_3) - 24 \text{ г.}}$$

$$\frac{9,6 \text{ г.}}{48 + 2x} \times \frac{24 \text{ г.}}{288 + 24x}$$

$$9,6(288 + 2x) = 24(48 + 2x)$$

$$2764,8 + 19,2x = 1152 + 48x$$

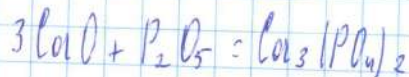
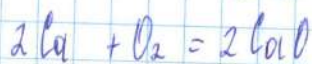
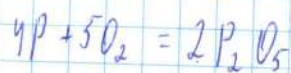
$$29,8x = 1612,8$$

$$x = \frac{1612,8}{29,8} \approx 54$$

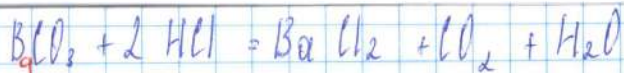
$$x = 56$$

Ищем! Fe (манган)

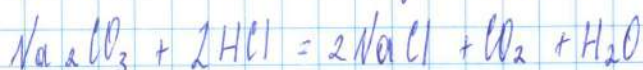
№2.



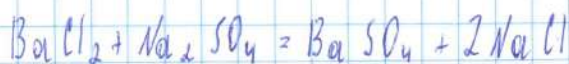
№3.



$$n(\text{BaCO}_3) = 0,2 \cdot 194 = 39,4 \text{ г.} \quad w(\text{BaCO}_3) = \frac{39,4}{50} = 0,788 \cdot 100\% = 78,8\%$$



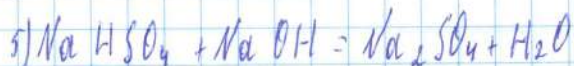
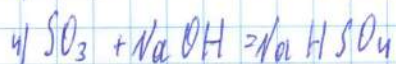
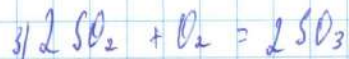
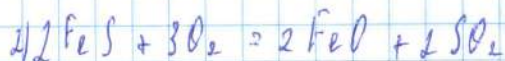
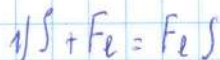
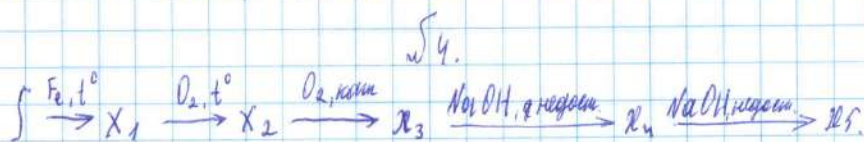
$$w(\text{Na}_2\text{CO}_3) = 100\% - 78,8\% = 21,2\%$$



$$n(\text{BaCl}_2) = n(\text{BaSO}_4) = 46,6 : 233 = 0,2 \text{ г.}$$

$$\text{Пример: } w(\text{BaCO}_3) = 78,8\%; \quad w(\text{Na}_2\text{CO}_3) = 21,2\%$$

45



55