

Класс 9 Вариант 2 Дата Олимпиады 24.02.2018

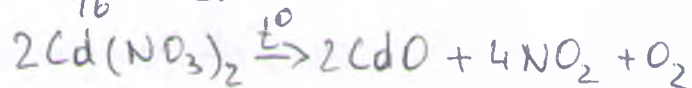
Площадка написания КНИТУ

Задача	1	2	3	4	5	6	Σ		Подпись
							Цифрой	Прописью	
Оценка	5	5	5	4	5	4	28	двадцать восемь	И.

$$1. \frac{47.46}{112.4} = 0.42$$

$$\frac{11.86}{14.01} = 0.84$$

$$\frac{40.68}{16} = 2.54$$



$$0.42 : 0.42 = 1$$

$$0.84 : 0.42 = 2$$

$$2.54 : 0.42 = 6$$

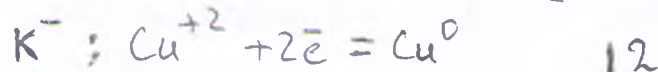
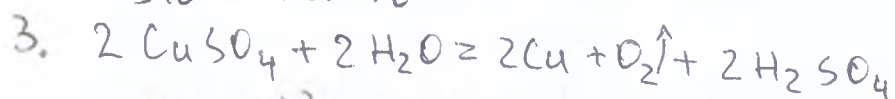
$$2. m_1 = 200 \cdot 0.1 = 20 \text{ г.}$$

$$m_2 = 340 \cdot 0.16 = 54.4 \text{ г.}$$

$$m_{\text{обж}} = 54.4 + 20 = 74.4 \text{ г.}$$

$$m_{\text{р-ра}} = 200 + 340 = 540 \text{ г.}$$

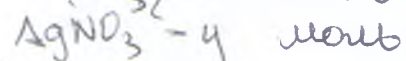
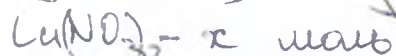
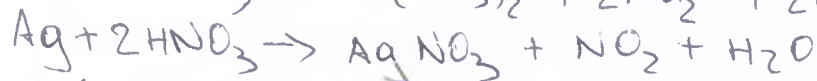
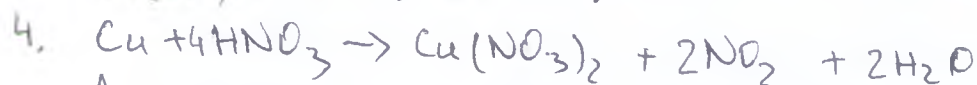
$$\frac{74.4}{540} = 13.7\%$$



$$V(\text{O}_2) = \frac{2.25 \text{ л}}{22.4 \text{ л}} = 0.1 \text{ моль}$$



$$m(\text{Cu}) = 64 \cdot 0.2 = 12.8 \text{ г.}$$



$$\begin{cases} 64x + 108y = 2.8 \text{ г} \\ 188x + 170y = 5.28 \text{ г} \end{cases}$$

$$(ab)c = a(bc)$$

$$E = mc^2$$



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$$\begin{cases} x = 0.04375 - 1.6875y \\ 188x + 170y = 5.28 \end{cases}$$

$$188(0.04375 - 1.6875y) + 170y = 5.28$$

$$-317.25y + 170y = 5.28 - 8.225$$

$$-147.25y = -2.945$$

$$y = 0.02 \text{ моль}$$

$$x = 0.04375 - 1.6875 \cdot 0.02 = \underline{0.1} \text{ моль}$$

$$m(\text{Cu}) = 0.1 \cdot 64 = 6.4 \text{ г.}$$

$$m(\text{Ag}) = 0.02 \cdot 108 = 2.16 \text{ г.} + \text{?}$$

