



# Reaction with Oxygen, Hydrogen and Nitrogen

Nurture: Course on Inorganic Chemistry for Class 11



## Question

from Ridham Patel

All goals

Special classes

All courses

All languages

All topics



HINDI  
AMA for jee 2023 students

Vishal Joshi



HINDI CHEMISTRY  
Interaction with 2023 jee aspirants  
Starts on May 30, 5:45 PM

Vishal Joshi



HINDI CHEMISTRY  
AMA session for 2023 aspirants  
Starts on May 28, 8:00 PM

Vishal Joshi



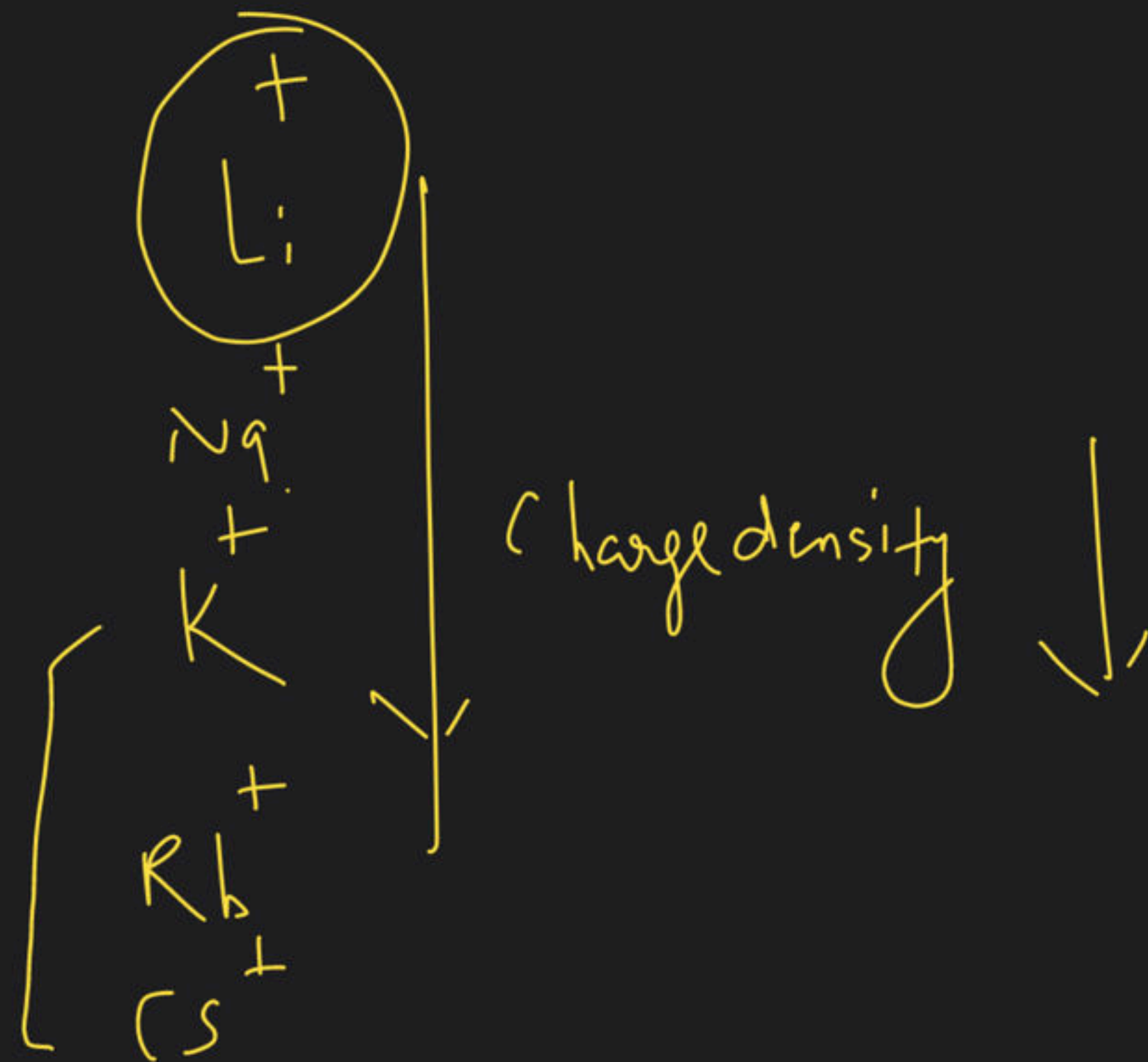
HINDI CHEMISTRY  
Strategy and Motivation session for  
2023 jee aspirants  
Starts on May 25, 10:30 AM

Vishal Joshi

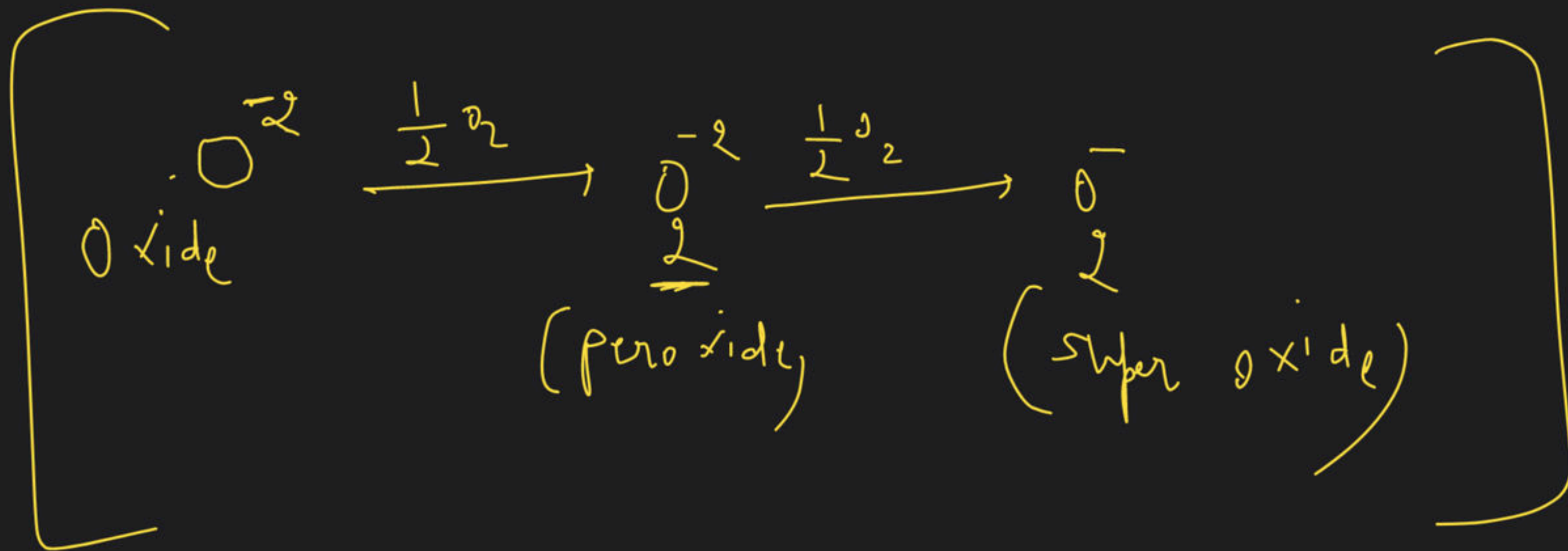
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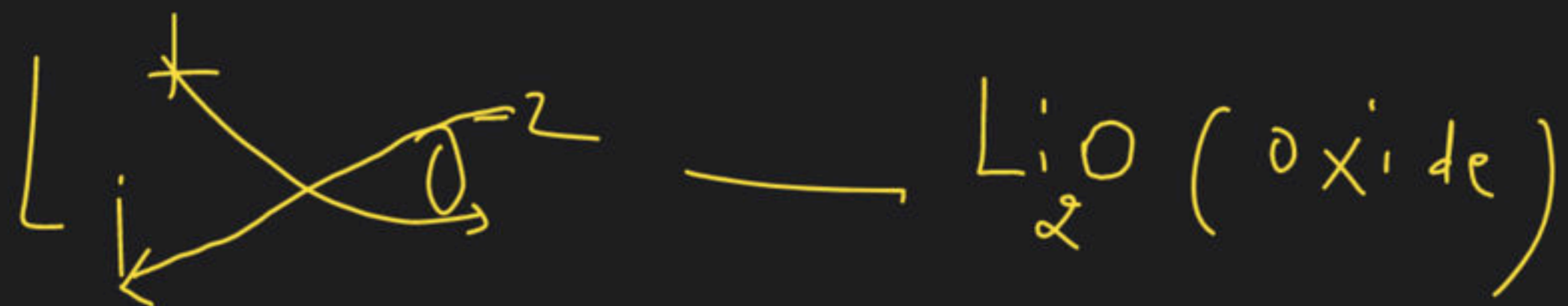
## Reaction

$$\frac{\text{Charge density}}{\text{(Cation)}} = \frac{\text{Charge}}{\text{Size}}$$

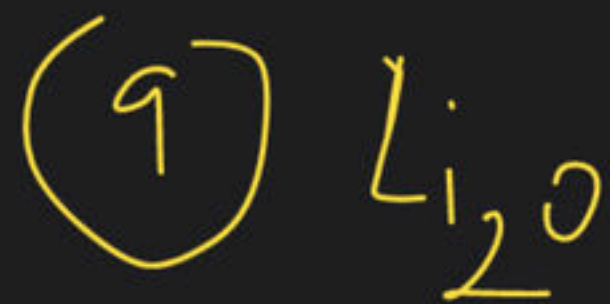








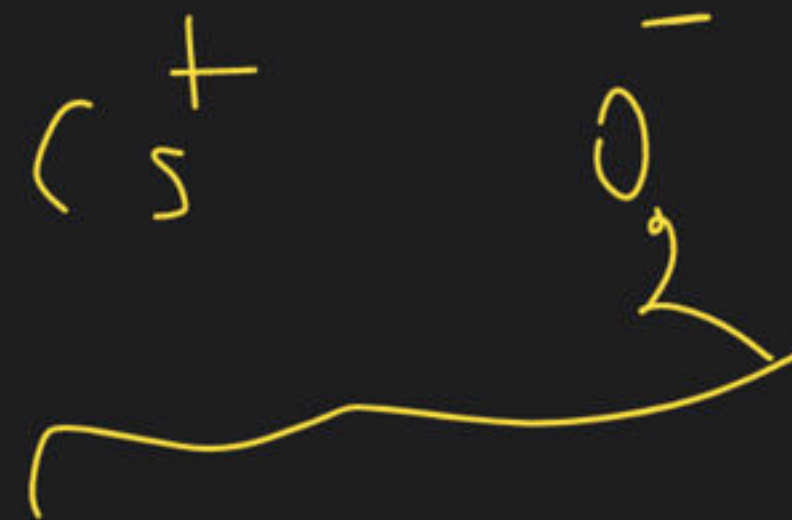
Which of the following compound is Superoxide



(d) all of the

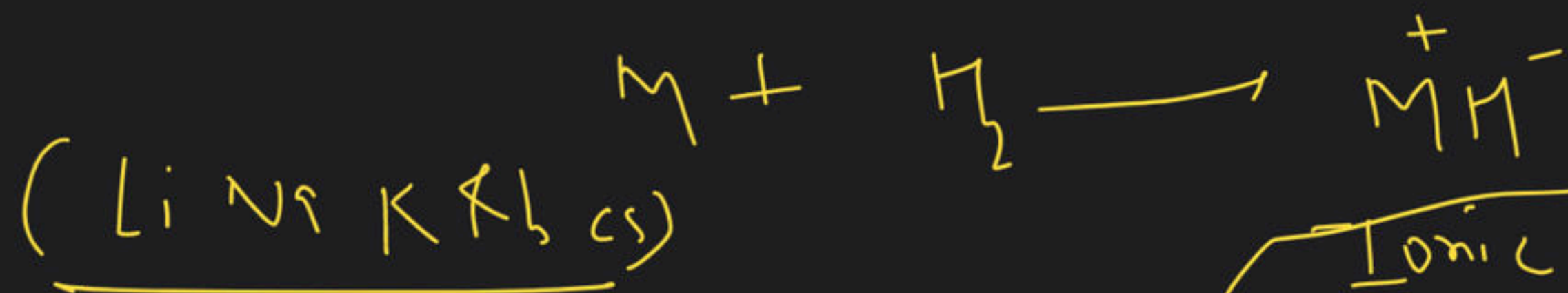
What is the Charge on Oxygen per atom in  $\text{CSO}_2$ .

- (a) -2      (b) -1      ☒ (c)  $-\frac{1}{2}$       (d) none





Reaction



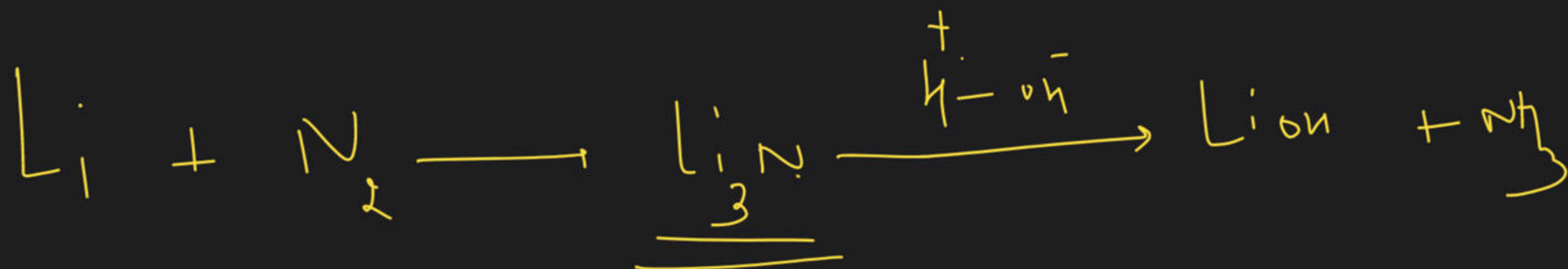
Ionic hydride

M.P  $\uparrow$  (melting point)

$\rightarrow$  saline hydride

neutral in solid state, nonconductor

in solid but conductor in molten  
state



$\text{N}^{-3}$



$\text{O}_2$

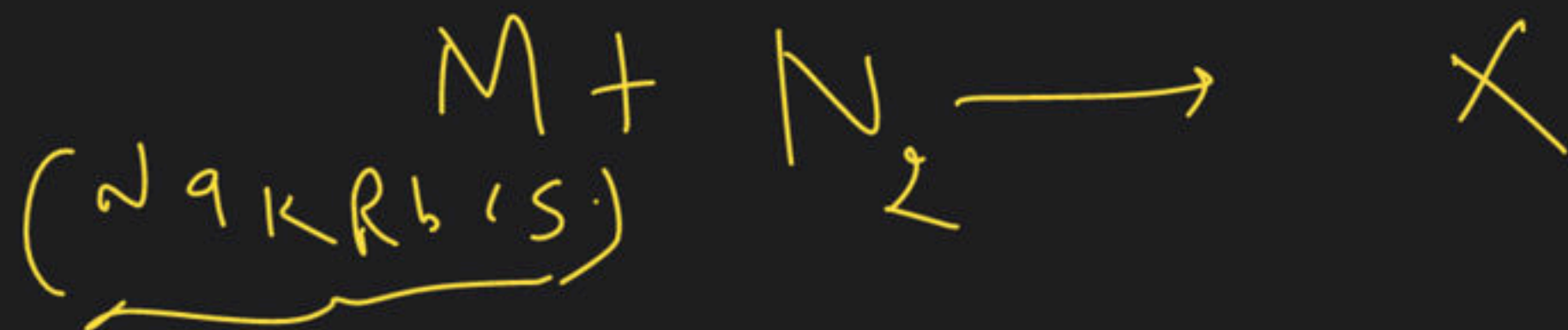
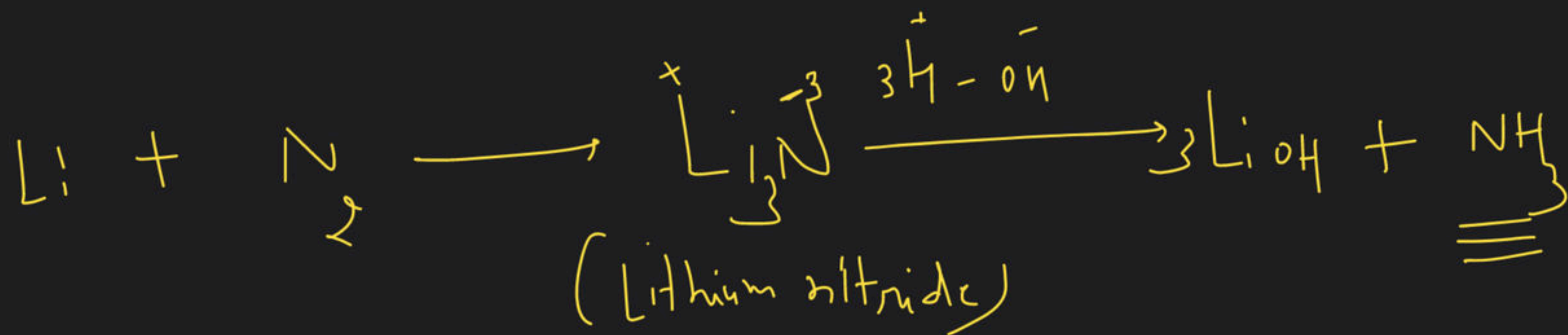
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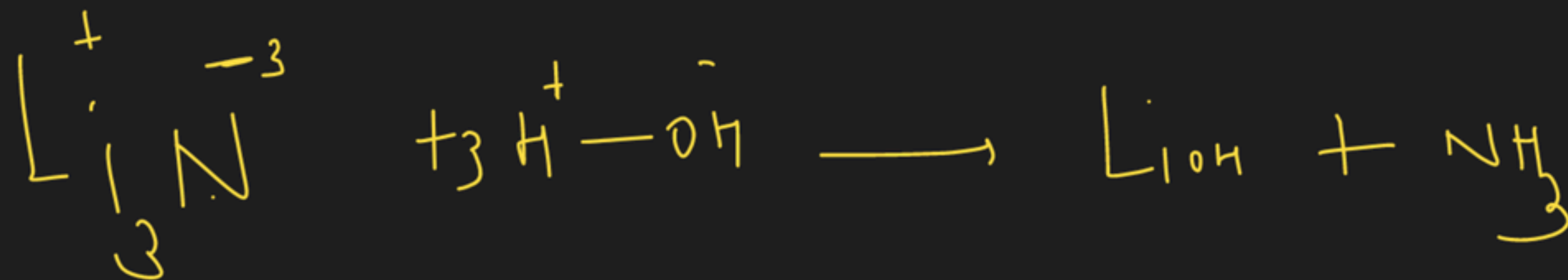


# Reaction with $N_2$



Which of the following alkali metal does  
not react with  $N_2$

- (1) Na (2) K (3) Rb (4) all



Which of the following 'ion' is called Peroxide

- (1)  $O^{-2}$       (2)  $\frac{O^{-2}}{2}$       (3)  $\frac{O^{-}}{2}$       (4) none