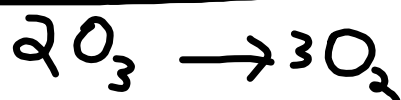
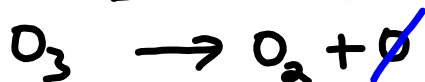
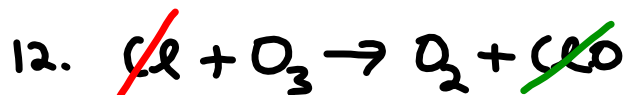


Test-



15. Trials 1+3

		Rate
1	2.0	2.5
3	4.0	20

$$\frac{20}{2.5} = 8$$

$$2^x = 8$$

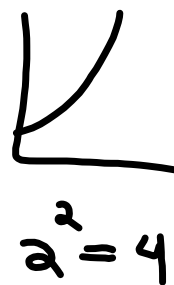
$$\xrightarrow{2} 2^3 = 8$$

$$2^4 = 2 \times 2 \times 2 \times 2$$

16. $K = [A]^2 [B]$

$$2^2 = 4$$

$$\frac{\times 2}{8}$$



Meaning of K_{eq}

1. If K_{eq} is large (>1)
* more products than reactants (equil.)
2. If K_{eq} is small (<1) more reactants...
3. If $K_{eq} = 1$ $[prod] \approx [react.]$

Le Chatelier's Principle-Activity

Observations

Change	Stress	Colour P or b	Shift (R or P)
Add H_2O	$\uparrow [H_2O]$	P	reactant
Add HCl	$\uparrow [Cl^-]$	b	product
Add $CuCl_2$	$\uparrow [Cu^{2+}]$	b	P
Add $AgNO_3$	$\downarrow [Cu^{2+}]$	P	r
Heat	\uparrow heat	b	P
Cool	\downarrow heat	P	r

Patterns -

- Add reactant - shift to products
- Add product - Shift to reactants
- Remove reactant - reactant
- Remove product - product