- **Division**

$$\left[{a_1}^{(\alpha)}, {a_3}^{(\alpha)}\right](/)\left[{b_1}^{(\alpha)}, {b_3}^{(\alpha)}\right] = \left[{a_1}^{(\alpha)}/\ {b_1}^{(\alpha)} \wedge {a_1}^{(\alpha)}/{b_3}^{(\alpha)} \wedge {a_3}^{(\alpha)}/\ {b_1}^{(\alpha)} \wedge {a_3}^{(\alpha)}/{b_3}^{(\alpha)}\ ,\ {a_1}^{(\alpha)}/\ {b_1}^{(\alpha)} \vee {a_1}^{(\alpha)}/{b_3}^{(\alpha)} \vee {a_3}^{(\alpha)}/\ {b_1}^{(\alpha)} \vee {a_3}^{(\alpha)}/{b_3}^{(\alpha)}\right]$$

except ${b_1}^{(\alpha)} = 0$ او ${b_3}^{(\alpha)} = 0$

- **Multiplication scalar value to the interval $a \in R$**

$$\mathrm{a}\left[{b_1}^{(\alpha)}, {b_3}^{(\alpha)}\right] = \left[\mathrm{a}\,.\,{b_1}^{(\alpha)} \wedge\ \mathrm{a}\,.\,{b_3}^{(\alpha)}\ ,\mathrm{a}\,.\,{b_1}^{(\alpha)} \vee \mathrm{a}\,.\,{b_3}^{(\alpha)}\right]$$

Operation of Fuzzy Number

- **Addition A(+) B**

$$\mu_{A(+)B}(z) = \vee_{z=x+y}\ (\mu_A(x) \wedge \mu_B(y))$$

- Subtraction **A(-) B**

$$\mu_{A(-)B}(z) = \vee_{z=x-y}\ (\mu_A(x) \wedge \mu_B(y))$$

- **Multiplication A (.) B**

$$\mu_{A(\cdot)B}(z) = \vee_{z=x.y}\ (\mu_A(x) \wedge \mu_B(y))$$

- **Division A (/) B**

$$\mu_{A(/)B}(z) = \vee_{z=x/y}\ (\mu_A(x) \wedge \mu_B(y))$$

- **Minimum**: A (∧) B

$$\mu_{\boldsymbol{A(\wedge)B}}(z) = \vee_{\boldsymbol{z=x\wedge y}}\ (\boldsymbol{\mu_A(x) \wedge \mu_B(y)})$$

- Maximum A(∨) B

$$\boldsymbol{\mu_{A(\vee)B}(z)} = \vee_{\boldsymbol{z=x\vee y}}\ (\boldsymbol{\mu_A(x) \wedge \mu_B(y)})$$