

Analysis of Means

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ANOM Decision Line Formulas

Formulas

ANOM for Balanced Groups

$$\text{UDL} = \bar{y}_{..} + h(\alpha; I, N - I) \sqrt{\text{MS}_e} \sqrt{\frac{I-1}{N}}$$

$$\text{LDL} = \bar{y}_{..} - h(\alpha; I, N - I) \sqrt{\text{MS}_e} \sqrt{\frac{I-1}{N}}$$

ANOM for Unbalanced Groups

$$\text{UDL} = \bar{y}_{..} + m(\alpha; I; N - I) \sqrt{\text{MS}_e} \sqrt{\frac{N - n_i}{N n_i}}$$

$$\text{LDL} = \bar{y}_{..} - m(\alpha; I; N - I) \sqrt{\text{MS}_e} \sqrt{\frac{N - n_i}{N n_i}}$$

ANOM for Proportions, Balanced Groups

$$\text{UDL} = \bar{p} + h(\alpha; I, \infty) \sqrt{\bar{p}(1 - \bar{p})} \sqrt{\frac{I-1}{N}}$$

$$\text{LDL} = \bar{p} - h(\alpha; I, \infty) \sqrt{\bar{p}(1 - \bar{p})} \sqrt{\frac{I-1}{N}}$$

ANOM for Proportions, Unbalanced Groups

$$\text{UDL} = \bar{p} + m(\alpha; I, \infty) \sqrt{\bar{p}(1 - \bar{p})} \sqrt{\frac{N-n_i}{Nn_i}}$$

$$\text{LDL} = \bar{p} - m(\alpha; I, \infty) \sqrt{\bar{p}(1 - \bar{p})} \sqrt{\frac{N-n_i}{Nn_i}}$$

ANOM for Rates, Balanced Groups

$$\text{UDL} = \bar{u} + h(\alpha; I, \infty) \sqrt{\bar{u}} \sqrt{\frac{I-1}{N}}$$

$$\text{LDL} = \bar{u} - h(\alpha; I, \infty) \sqrt{\bar{u}} \sqrt{\frac{I-1}{N}}$$

ANOM for Rates, Unbalanced Groups

$$\text{UDL} = \bar{u} + m(\alpha; I, \infty) \sqrt{\bar{u}} \sqrt{\frac{N-n_i}{Nn_i}}$$

$$\text{LDL} = \bar{u} - m(\alpha; I, \infty) \sqrt{\bar{u}} \sqrt{\frac{N-n_i}{Nn_i}}$$