

## LAMPIRAN 10

### 1. Estimasi Parameter Rata-Rata

$$\bar{x} - Z \cdot \frac{\sigma}{\sqrt{n}} < \mu < \bar{x} + Z \cdot \frac{\sigma}{\sqrt{n}}$$

$$\rightarrow 76 - 1.96 \frac{8.81}{\sqrt{66}} \leq \mu \leq 76 + 1.96 \frac{8.81}{\sqrt{66}}$$

$$\rightarrow 76 - 1.96 (1.085) \leq \mu \leq 76 + 1.96 (1.085)$$

$$\rightarrow 76 - 2.126 \leq \mu \leq 76 + 2.126$$

$$\rightarrow 73.874 \leq \mu \leq 78.126$$

### 2. Estimasi Proporsi

$$p - Z_{(\alpha/2)} \sqrt{\frac{p(1-p)}{n}} \leq P \leq p + Z_{(\alpha/2)} \sqrt{\frac{p(1-p)}{n}}$$

#### a. Kategori Tinggi

$$p = \frac{41}{66} = 0.62$$

$$\rightarrow \left( 0.62 - 1.96 \sqrt{\frac{0.62(1-0.62)}{66}} \leq P \leq 0.62 + 1.96 \sqrt{\frac{0.62(1-0.62)}{66}} \right)$$

$$\rightarrow \left( 0.62 - 1.96(0.0597) \leq P \leq 0.62 + 1.96(0.0597) \right)$$

$$\rightarrow \left( 0.62 - 0.1171 \leq P \leq 0.62 + 0.1171 \right)$$

$$\rightarrow \left( 0.5029 \leq P \leq 0.7371 \right)$$

#### b. Kategori Sedang

$$p = \frac{24}{66} = 0.36$$

$$\rightarrow \left( 0.36 - 1.96 \sqrt{\frac{0.36(1-0.36)}{66}} \leq P \leq 0.36 + 1.96 \sqrt{\frac{0.36(1-0.36)}{66}} \right)$$

$$\rightarrow \left( 0.36 - 1.96(0.059) \leq P \leq 0.36 + 1.96(0.059) \right)$$

$$\rightarrow \left( 0.36 - 0.1158 \leq P \leq 0.36 + 0.1158 \right)$$

$$\rightarrow \left( 0.2442 \leq P \leq 0.4758 \right)$$

c. Kategori Rendah

$$p = \frac{1}{66} = 0.02$$

$$\rightarrow \left( 0.02 - 1.96 \sqrt{\frac{0.02(1-0.02)}{66}} \leq P \leq 0.02 + 1.96 \sqrt{\frac{0.02(1-0.02)}{66}} \right)$$

$$\rightarrow \left( 0.02 - 1.96(0.01) \leq P \leq 0.02 + 1.96(0.01) \right)$$

$$\rightarrow \left( 0.02 - 0.0196 \leq P \leq 0.02 + 0.0196 \right)$$

$$\rightarrow \left( 0.0004 \leq P \leq 0.0396 \right)$$