(139) $\hat{\mu} = 10400$ $\quad \sigma = 85 \quad\quad \hat{\mu} = \overline{X}_n^{(1)}$

$$T = \frac{\overline{X}_n^{(1)} - \mu}{\sigma/\sqrt{n}} = \frac{10400 - \mu}{85/\sqrt{40}}$$

$$\gamma = 56\% = P\left(-q_{56\%} < T < q_{56\%}\right) = P\left(-q_{56\%} = 0.15 < \frac{10400 - \mu}{13.44} < 0.15\right) =$$

$$P\left(-2.016 < 10400 - \mu < 2.016\right) = P\left(10.398 < \mu < 10402\right)$$

$$(10.398 ; 10402) \subseteq [0.999a , 1.001a]$$