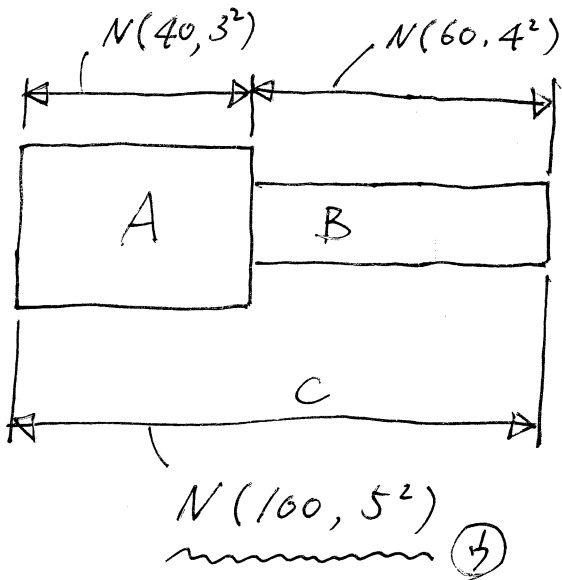


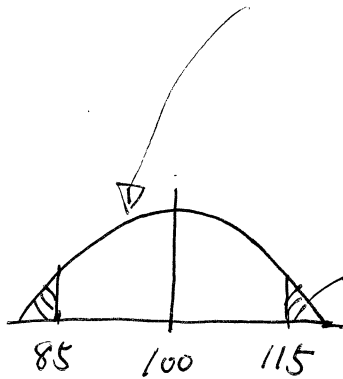
第38回 2級 内2.

①



$$\begin{aligned} E(C) &= E(A+B) \\ &= E(A) + E(B) \\ &= 40 + 60 = \underline{100} \end{aligned}$$

$$\begin{aligned} V(C) &= V(A+B) \\ &= V(A) + V(B) \\ &= 3^2 + 4^2 = 9 + 16 \\ &= 25 = \underline{5^2} \end{aligned}$$



σの標準化式は $u = \frac{x - \mu}{\sigma}$ (カ)

uは $u = \frac{x - \mu}{\frac{\sigma}{n}}$ に従う (キ)

(9) ウ

(10) カ

(11) キ

②

$$k_p = \frac{x - \mu}{\sigma} = \frac{115 - 100}{5} = 3 \text{ のとき } P = 0.0013 \text{ の2倍}$$

全長不適合品率は $0.0013 \times 2 = 0.0026$

$$= 0.26\% \quad \underline{\text{7}}$$

(12) ア

$$C_p = \frac{115 - 85}{6\sigma} = \frac{30}{6 \times 5} = 1 \quad \underline{\text{I}}$$

(13) I