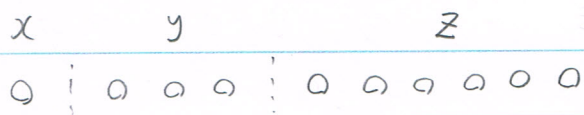


例3 P38

(1) $x + y + z = 10$

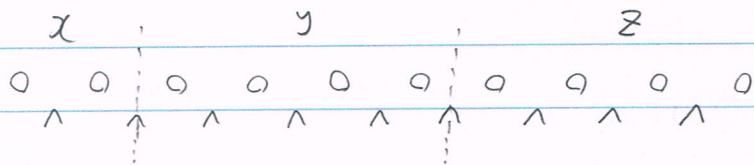


中村学習塾 → ○が10個, ;が2個の"順列"

$$\begin{aligned}
 3+10-1 C_{10} &= 12 C_{10} \\
 &= 12 C_2 \\
 &= \frac{12 \cdot 11}{2 \cdot 1} = 66 \quad \therefore 66 \text{個}
 \end{aligned}$$

$$\begin{aligned}
 &\downarrow \\
 &\frac{12!}{10! 2!} \text{ 2"はよい"}
 \end{aligned}$$

(2) $x + y + z = 10$



← ;を入れる場所が9ヶ所の組み合わせ

$$\begin{aligned}
 9 C_2 &= \frac{9 \cdot 8}{2 \cdot 1} = 36 \\
 &\therefore 36 \text{個}
 \end{aligned}$$

中村学習塾

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