

組合せ問題全問題

(8)

組合せ

④ ⑤ ⑥ ⑦

(6,0,0) ... 1
(5,1,0) ... ${}_6C_5 = 6$

(4,2,0) ... ${}_6C_4 = 15$

(4,1,1) ... (5) = 15

(3,3,0) ... ${}_6C_3 \div 2! = 10$

(3,2,1) ... (2) = 60

(2,2,2) ... (4) = 15

$Q \times 3, \| \times 2 \text{ の同じ組合せ} \downarrow$

$\frac{5!}{3!2!} = 5C_2 = 10$

(2) (1) ${}^6C_3 \times {}^3C_2 \times 1 = \frac{60}{4}$

(3) ${}^6C_2 \times {}^4C_2 \times 1 = \frac{90}{4}$

(4) 組合せ問題

(3) $\div 3! = \frac{15}{4}$

組合せ問題

(6,0,0)

(5,1,0)

(4,2,0)

(4,1,1)

(3,3,0)

(3,2,1)

(2,2,2)

(5) 4個と1個は区別せず
1個の組合せ問題

${}^6C_4 \times {}^2C_1 \times 1 \div 2! = \frac{15}{4}$

$60 + 15 + 15 = \frac{90}{4}$

(6) ${}^3C_2 = \frac{12}{4}$

(10) ④ ⑤ ⑥

(7)

①全7組

14

${}^7C_2 - {}^3C_2 (2-2) - 3$

$\frac{1}{2} {}^7C_2 \times {}^3C_2$

$= \frac{540}{4}$

①全3組

3

(11)