$$P(A_{ij} \cap A_{ik}) = \sum_{x \in 365} P(B_{ix} \cap B_{jx} \cap B_{hx}) = \sum_{c \in 365} \frac{1}{(3c5)^3} = \frac{1}{365^2} = P(A_{ij}) P(A_{ik})$$

That as $(A_i) = P(A_{ij}) P(A_{ik})$

The man meganitation meganonotial, large near $P(A_{ij} \cap A_{jk} \cap A_{hi}) = \sum_{c \in 365} P(B_{ix} \cap B_{jx} \cap B_{hx}) = \frac{1}{265^2} \neq \frac{1}{366^3} = P(A_{ij} \cap A_{jk} \cap A_{hi})$

$$P(A_{ij} \cap A_{jk} \cap A_{hi}) = \sum_{c \in 365} P(B_{ix} \cap B_{jx} \cap B_{hx}) = \frac{1}{265^2} \neq \frac{1}{3} = P(A_{ij} \cap A_{jk} \cap A_{hi})$$

$$P(A_{ij} \cap A_{jk} \cap A_{hi}) = \sum_{c \in 365} P(B_{ix} \cap B_{jx} \cap B_{hx}) = \frac{1}{265^2} \neq \frac{1}{3} = \frac{1}{1+i} = \frac$$