Rule 3. There are $\binom{n}{r}$ different subpopulations of size $r \leq n$ from a population of n elements, where

$$\binom{n}{r} = \frac{n!}{r!(n-r)!}. \tag{2}$$

Example 7. Consider the random distribution of r balls in n cells. Let A_k be the event that a specified cell has exactly k balls, $k = 0, 1, 2, \ldots, r$; k balls can be chosen in $\binom{r}{k}$ ways. We place k balls in the specified cell and distribute the remaining $r - k$ balls in the $n - 1$ cells in $(n-1)^{r-k}$ ways. Thus

$$PA_k = \binom{r}{k} \frac{(n-1)^{r-k}}{n^r} = \binom{r}{k} \left(\frac{1}{n}\right)^k \left(1 - \frac{1}{n}\right)^{r-k}.$$

Example 8. There are $\binom{52}{13} = 635{,}013{,}559{,}600$ different hands at bridge, and $\binom{52}{5} = 2{,}598{,}960$ hands at poker.

The probability that all 13 cards in a bridge hand have different face values is $4^{13} / \binom{52}{13}$. The probability that a hand at poker contains five different face values is $\binom{13}{5} 4^5 / \binom{52}{5}$.

Rule 4. Consider a population of n elements. The number of ways in which the population can be partitioned into k subpopulations of sizes $r_1, r_2, \ldots, r_k$, respectively, $r_1 + r_2 + \cdots + r_k = n$, $0 \leq r_i \leq n$, is given by

$$\binom{n}{r_1, r_2, \ldots, r_k} = \frac{n!}{r_1! r_2! \cdots r_k!}. \tag{3}$$

The numbers defined in (3) are known as *multinomial coefficients*.

Proof. For the proof of Rule 4 one uses Rule 3 repeatedly. Note that

$$\binom{n}{r_1, r_2, \ldots, r_k} = \binom{n}{r_1} \binom{n-r_1}{r_2} \cdots \binom{n - r_1 \cdots - r_{k-2}}{r_{k-1}}. \tag{4}$$

Example 9. In a game of bridge the probability that a hand of 13 cards contains 2 spades, 7 hearts, 3 diamonds, and 1 club is

$$\frac{\binom{13}{2}\binom{13}{7}\binom{13}{3}\binom{13}{1}}{\binom{52}{13}}.$$

Example 10. An urn contains 5 red, 3 green, 2 blue, and 4 white balls. A sample of size 8 is selected at random without replacement. The probability that the sample contains 2 red, 2 green, 1 blue, and 3 white balls is

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