permacharts

STATISTICS

SAMPLES

Population	Totality of objects, individuals, and events
Sample	Part of population chosen for measurement and observation • Number of sample values is n
Class	Subdivision of sample values x_i
Class mark, x_i	Midpoint value of a class
Class size, c	Difference between successive lower or upper class limits
Class frequency, f	Number of sample values in a class
Relative frequency, f/n	Class frequency divided by total number of values n
Cumulative frequency	Total number of values less than given value

PROPERTIES OF SAMPLED DATA

Parameter	Ungrouped Data	Data Grouped in k Classes
Mean	$\bar{x} = \frac{\Sigma x_i}{n}$	$\bar{x} = \frac{\Sigma f x_i}{n}$
Variance	$s^2 = \frac{\Sigma (x_i - \bar{x})^2}{n-1}$	$s^2 = \frac{\Sigma f (x_i - \bar{x})^2}{n-1}$
Variance (alternate)	$s^2 = \frac{n\Sigma x_i^2 - (\Sigma x_i)^2}{n(n-1)}$	$s^2 = \frac{n\Sigma f x_i^2 - (\Sigma f x_i)^2}{n(n-1)}$

Note: Standard Deviation $= s = \sqrt{\text{variance}}$

Range of sample: $x_{max} - x_{min}$

Mode: Most common value of x

Median: Middle value or mean of two middle values

Coefficient of variation: $V = (s/\bar{x}) \cdot 100$

Quartiles Q_{25}, Q_{50}, Q_{75}: Values that divide data set into 4 equal parts

Interquartile range: $Q_{75} - Q_{25}$

THE CODE METHOD

- Relocation x_i by first subtracting a convenient number m (often the median or mode) followed by division by a suitable number c (often the class size)
- New data set u_i yields mean $\bar{u}$ and standard deviation s_u of original set:
  $\bar{x} = c\bar{u} + m$ and $s_x = cs_u$

Example:

Class	Frequency, f_i	x_i	$u_i = (x_i - m)/c$	$f_i u_i$	$f_i u_i^2$
60–62	5	61	−2	−10	20
63–65	18	64	−1	−18	18
66–68	42	67 (m)	0	0	0
69–71	27	70	1	27	27
72–74	8	73	2	16	32

$\bar{u} = \Sigma f_i u_i / n = 15/100 = 0.15$

$\bar{x} = \bar{u} \cdot c + m = 0.15(3) + 67 = 67.45$

$s_x = c \cdot s_u = c\sqrt{\frac{n\Sigma f_i u_i^2 - (\Sigma f_i u_i)^2}{n(n-1)}} = 2.97$

Notes: $\bar{u}$ is the mean of the new set. $\bar{x}$ is the mean of the original set. s_u is the standard deviation of original set

PROBABILITY THEORY

FACTORIAL FUNCTIONS

$n!$ (n factorial)

$n! = n(n-1)(n-2)(n-3)\ldots(3)(2)(1)$

Stirling's Approximation

$n! \approx \sqrt{2\pi n}(n/e)^n$

Binomial Coefficients

$\binom{n}{r} = \frac{n!}{r!(n-r)!}$ $\quad \binom{n}{0} = \binom{n}{n} = 1$

Note: $0! = 1$

PROBABILITY THEORY

Probability $P(E)$ of "success" = number of events considered successful / total number of possible events (n)

Probability $P(\bar{E})$ of "failure" = $1 - P(E)$

Rule 1

- The probability $P(A \cap B)$ that two independent events A and B will both occur, simultaneously or in succession, is: $P(A) \cdot P(B)$

Example: The probability of drawing a queen and a heart from two separate decks is: $P(A \cap B) = \frac{4}{52} \cdot \frac{13}{52} = \frac{1}{52}$

Rule 2

- The combined probability $P(A \cup B)$ that one or the other of two mutually exclusive events A and B will occur is: $P(A) + P(B)$

Example: The probability of drawing a queen or a jack from a single deck is: $P(A \cup B) = \frac{4}{52} + \frac{4}{52} = \frac{8}{52}$

Rule 3

- The combined probability $P(A \cup B)$ that one or the other or both of the two events A and B will occur is: $P(A) + P(B) - P(A \cap B)$

Example: The probability of drawing a queen or a heart or the queen of hearts from a single deck is: $P(A \cup B) = \frac{4}{52} + \frac{13}{52} - \left[\frac{4}{52} \cdot \frac{13}{52}\right] = \frac{16}{52}$

Rule 4

- The probability that event B occurs given that event A has already occurred is called the conditional probability $P(B|A)$
- The probability of the sequence occurring is: $P(AB) = P(A) \cdot P(B|A)$

Example: The probability of drawing a queen and a jack in succession from a single deck is: $P(AB) = \frac{4}{52} \cdot \frac{4}{51} = \frac{4}{663}$

PERMUTATIONS & COMBINATIONS

Rule 1

- The number of permutations (= arrangements including changes in order) of n distinct objects taken all at a time is: $_nP_n = n!$

Rule 2

- Number of permutations of n distinct objects taken r at a time is:

	Without Repetition	With Repetition of Objects
	$_nP_r = n!/(n-r)!$	$_nP_r = n^r$

Rule 3

- Number of combinations (= arrangements omitting changes in order) of n distinct objects taken r at a time is:

$_nC_r = \binom{n}{r} = \frac{n!}{r!(n-r)!}$ $\quad _nC_r = \binom{n+r-1}{r} = \frac{(n+r-1)!}{r!(n-1)!}$

Example: Given the following 3 objects (● ◆ ✚), $n = 3$, $r = 2$ (Two taken at a time)

Without Repetition: $_nP_r = \frac{n!}{(n-r)!} = 6$

● ◆ ✚ ● ◆ ● ✚ ◆ ● ◆ ✚ ● ✚ ● ◆

$_nC_r = \frac{n!}{r!(n-r)!} = 3$

● ◆ ● ✚ ◆ ✚

With Repetition of Objects: $_nP_r = 3^2 = 9$

$_nC_r = \frac{(n+r-1)!}{r!(n-1)!} = 6$

add ● ◆ ✚ ● ◆ ● to the outcome at left

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Practice Of Statistics Study Guide

Sabine Zange

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