

PLTW Engineering Formula Sheet 2014

1.0 Statistics

Mean

$$\mu = \frac{\sum x_i}{N} \quad (1.1a) \qquad \bar{x} = \frac{\sum x_i}{n} \quad (1.1b)$$

μ = population mean

$\bar{x}$ = sample mean

$\sum x_i$ = sum of all data values ($x_1, x_2, x_3, \dots$)

N = size of population

n = size of sample

Median

Place data in ascending order.

If N is odd, median = central value

If N is even, median = mean of two central values

N = size of population

Range (1.5)

$$\text{Range} = X_{\text{max}} - X_{\text{min}} \quad (1.3)$$

X_{max} = maximum data value

X_{min} = minimum data value

Mode

Place data in ascending order.

Mode = most frequently occurring value

If two values occur with maximum frequency the data set is *bimodal*.

If three or more values occur with maximum frequency the data set is *multi-modal*.

Standard Deviation

$$\sigma = \sqrt{\frac{\sum (x_i - \mu)^2}{N}} \quad (\text{Population}) \quad (1.5a)$$

$$s = \sqrt{\frac{\sum (x_i - \bar{x})^2}{n-1}} \quad (\text{Sample}) \quad (1.5b)$$

σ = population standard deviation

s = sample standard deviation

x_i = individual data value ($x_1, x_2, x_3, \dots$)

μ = population mean

$\bar{x}$ = sample mean

N = size of population

n = size of sample

2.0 Probability

Frequency

$$f_x = \frac{n_x}{n} \quad (2.1)$$

f_x = relative frequency of outcome x

n_x = number of events with outcome x

n = total number of events

Binomial Probability (order doesn't matter)

$$P_k = \frac{n! (p^k) (q^{n-k})}{k! (n-k)!} \quad (2.2)$$

P_k = binomial probability of k successes in n trials

p = probability of a success

$q = 1 - p$ = probability of failure

k = number of successes

n = number of trials

Independent Events

$$P(A \text{ and } B \text{ and } C) = P_A P_B P_C \quad (2.3)$$

$P(A \text{ and } B \text{ and } C)$ = probability of independent

events A and B and C occurring in sequence

P_A = probability of event A

Mutually Exclusive Events

$$P(A \text{ or } B) = P_A + P_B \quad (2.4)$$

$P(A \text{ or } B)$ = probability of either mutually exclusive event A or B occurring in a trial

P_A = probability of event A

Conditional Probability

$$P(A|D) = \frac{P(A) \cdot P(D|A)}{P(A) \cdot P(D|A) + P(\sim A) \cdot P(D|\sim A)} \quad (2.5)$$

$P(A|D)$ = probability of event A given event D

$P(A)$ = probability of event A occurring

$P(\sim A)$ = probability of event A not occurring

$P(D|\sim A)$ = probability of event D given event A did not occur

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