

PLTW Engineering Formula Sheet 2014

1.0 Statistics

Mean

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

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

(1.2)

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

(1.4)

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

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

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

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

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

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

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Jin-Ying Zhang



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The Top Books of the Year Cheat Sheet National Final Engineering Pltw Ied The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Cheat Sheet National Final Engineering Pltw Ied : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Cheat Sheet National Final Engineering Pltw Ied : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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