

## PLTW Engineering Formula Sheet 2014

### 1.0 Statistics

#### Mean

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

$\mu$  = 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)

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

$x_{\text{max}}$  = maximum data value

$x_{\text{min}}$  = 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

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

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

$\sigma$  = population standard deviation

$s$  = sample standard deviation

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

$\mu$  = 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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**K Morrison**



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