

Statistics and probability



Mean from a table $\bar{x} = \frac{\sum fx}{\sum f}$

Median position (n values) $\frac{n+1}{2}$ th value

Interquartile range $Q_3 - Q_1$

Histogram frequency density = $\frac{\text{frequency}}{\text{class width}}$

Probability $P(\text{not } A) = 1 - P(A)$;
expected frequency = $n \times P(A)$

Mutually exclusive $P(A \text{ or } B) = P(A) + P(B)$

Any two events $P(A \cup B) = P(A) + P(B) - P(A \cap B)$

Independent $P(A \text{ and } B) = P(A) \times P(B)$