FURTHER STATISTICS

1) DISCRETE RANDOM VARIABLES

1.1 - Expected value of a discrete random variable

Random variable → variable whose value depends on a random event.

The random variable is discrete if it can only take certain numerical values.

If you take a set of observations from a discrete random variable, you can find the mean of those observations.
↳ As the number of observations increases, this value will get closer and closer to the expected value of the discrete random variable.

The expected value of the discrete random variable X is denoted $E(X)$ and defined as:

$$E(X) = \sum x\,P(X=x)$$ theoretical value.

The expected value is sometimes referred to as the mean, and is denoted by μ.

Also, $$E(X) = \sum x^2 P(X=x)$$ $[P(X^2=x^2) = P(X=x)]$

Use $\sum P(X=x) = 1$ to solve simultaneously.

1.2 - Variance of a discrete random variable

The variance of X is usually written as $Var(X)$ and is defined as:

$$Var(X) = E((X-E(X))^2)$$

Sometimes it is easier to calculate the variance using the formula

$$Var(X) = E(X^2) - (E(X))^2$$ (Var(X)

1.3 - Expected value and variance of a function of X

$$E(g(X)) = \sum g(x)\,P(X=x)$$

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Keith Pledger

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