

## FURTHER STATISTICS

### 1) DISCRETE RANDOM VARIABLES

#### 1.1 - Expected value of a discrete random variable

Random variable  $\rightarrow$  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.

$\hookrightarrow$  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:

$$\underline{E(X) = \sum x P(X=x)} \quad \text{theoretical value.}$$

The expected value is sometimes referred to as the mean, and is denoted by  $\mu$ .

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

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  $\text{Var}(X)$  and is defined as:

$$\underline{\text{Var}(X) = E((X - E(X))^2)}$$

Sometimes it is easier to calculate the variance using the formula

$$\underline{\text{Var}(X) = E(X^2) - (E(X))^2} \quad (\text{Var}(X))$$

#### 1.3 - Expected value and variance of a function of $X$

$$\underline{E(g(X)) = \sum g(x) P(X=x)}$$

# Millhill Statistics Edexcel Maths

**Albert A Gayle**



## **Millhill Statistics Edexcel Maths:**

## **Millhill Statistics Edexcel Maths** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Millhill Statistics Edexcel Maths**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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