

8. The probability distribution of the random variable X is given by the function

$$P(X=x) = 4 + 0.81x^2 \text{ for } x = 1, 2, 3, 4, 5.$$

- (a) Show that $2 = 0.19$. Using this value of 2 , drawing the probability distribution of X is a value ✓ (14)

- (b) Find $E(X)$ and $\text{Var}(X)$ ✓

$$E(X) = 2.76$$

$$\text{Var}(X) = 1.78$$

Section B (30 marks)

9. The weights of a random sample of corns of variety A are summarized in the table below.

Weight	$50 \leq w < 60$	$60 \leq w < 70$	$70 \leq w < 80$	$80 \leq w < 90$
Frequency	11	10	18	7

- (i) Draw a histogram to illustrate these data. $\bar{x} = 62.49$ ✓ (5)
- (ii) Calculate estimates of the mean and standard deviation of w . $\sigma = 14.257$ ✓ (4)

- (iii) Use your answers to part (ii) to investigate whether there are any outliers. $1.5\sigma = 21.4$ ✓ $3\sigma = 42.9$ ✓ (3)

The weights, x grams, of a random sample of 50 corns of variety B are summarized as follows.

$$n = 50 \quad \Sigma x = 3624.5 \quad \Sigma x^2 = 263416$$

- (iv) Calculate the mean and standard deviation of x . $\bar{x} = 72.49$ ✓ (3)
- (v) Compare the central tendency and variation of the weights of varieties A and B. (3)

10. It is known that on average 80% of corns of a particular variety of tomato will germinate. Ramesh selects 25 of these seeds at random and sows them.

- (i) (A) Find the probability that exactly 12 germinate. $P = 0.1857$ ✓ (4)
- (B) Find the probability that fewer than 12 germinate. 0.1773 ✓ (2)

The following year Ramesh finds that he still has many seeds left. Because the seeds are not very old, he suspects that the germination rate will be higher. He conducts a trial by randomly selecting 25 of these seeds and sowing them. He then carries out a hypothesis test at the 1% significance level to investigate whether he is correct.

- (ii) Write down suitable null and alternative hypotheses for the test. Give a reason for your choice of alternative hypothesis. (4)

- (iii) In a trial with $n = 20$, Ramesh finds that 13 seeds germinate. Carry out the test. $0.6042 > 0.01$ ✓ (4)

- (iv) Suppose instead that Ramesh conducts the trial with $n = 20$, and finds that 13 seeds germinate. Given that the critical value for the test in this case is 33, complete the test. $33 < 35 \rightarrow 0.01$ ✓ (3)

- (v) If n is small, there is no point in carrying out the test at the 1% significance level, as the null hypothesis cannot be rejected however many seeds germinate. Find the smallest value of n for which the null hypothesis can be rejected, giving appropriate probabilities to justify your answer. when $n = 3$ ✓ (2)

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