

**A Level Further Maths**

Finding probability for $1000\text{km}^2$
Finding the probability for $200\text{km}^2$
Find probability for $50000\text{km}^2$
Find $P(5 \leq X \leq 11)$
Test at 10% level
Probability Density Function: Show that $k = 1/4$
Mode of X
Cumulative Distribution Function $F(x)$
Upper Quartile of X
Find the $P(L < 0.4)$
Write down $E(L)$
Calculate $\text{Var}(L)$
Find the probability given random sample of 30
Find $P(X > 0.4)$
Finding a suitable approximation to find probability
Find the critical region
Hypothesis Test at 5% level of significance
State the actual significance level of this test
Find the probability that residents.
Find k in terms of n
Find $E(X)$ in terms of n
Find $E(X^2)$ in terms of n
Find $\text{Var}(3X)$
Find the sampling distribution

