

10)  $f(x) = \begin{cases} \frac{1}{9} x e^{-x/3}, & x \geq 0 \\ 0, & x < 0 \end{cases}$

a) For  $x < 0$ :  $F(x) = P(X \leq x) = 0$

For  $0 \leq x$   
 $F(x) = P(X \leq x) = \int_0^x f(x) dx$   
 $= \int_0^0 0 dx + \int_0^x \frac{1}{9} x e^{-x/3} dx$   
 $= \left[ -\frac{1}{3} x e^{-x/3} \right]_0^x + \int_0^x e^{-x/3} dx$   
 $= \left[ -\frac{1}{3} x e^{-x/3} - 0 \right] + \int_0^x e^{-x/3} dx$   
 $= -\frac{1}{3} x e^{-x/3} - \left[ e^{-x/3} - e^0 \right]$   
 $= -\frac{1}{3} x e^{-x/3} - e^{-x/3} + 1$

$F(x) = \begin{cases} 0, & x < 0 \\ \frac{1}{3} x e^{-x/3} - e^{-x/3} + 1, & 0 \leq x \end{cases}$

b)  $P(X > 9)$   
 $= 1 - P(X \leq 9)$   
 $= 1 - F(9)$   
 $= 1 - \left[ \frac{1}{3} (9) e^{-9/3} - e^{-9/3} + 1 \right]$   
 $= 3e^{-3} + e^{-3} = 4e^{-3}$   
 $= 0.199$

11) H = hatch  
H' = fail to hatch.  
 $P(H') = 0.01$   
 $P(H) = 0.99$

X = number of eggs hatch  
 $p = 0.99$ ,  $n = n$

$X \sim B(n, p)$

$X \sim B(n, 0.99)$

$P(X = x) = {}^n C_x p^x q^{n-x}$

$= {}^n C_x (0.99)^x (0.01)^{n-x}$ ,  $x = 0, 1, 2, \dots, n$

$P(X = n) > 0.75$

${}^n C_n (0.99)^n (0.01)^{n-n} > 0.75$

(1)  $(0.99)^n (1) > 0.75$

11)  $\log 0.99^n > \log 0.75$   
 $n \log 0.99 > \log 0.75$   
 $n(-0.004365) > (-0.12494)$   
 $\max. n = 28 < 28.62$   
Maximum number of eggs = 28

b) Y = number of eggs fail to hatch  
 $p = 0.01$ ,  $n = 200$

$np = 2 < 5$  use poisson dist

$Y \sim P_0(2)$

$P(Y = y) = \frac{e^{-\mu} \mu^y}{y!} = \frac{e^{-2} (2)^y}{y!}$ ,  $y = 0, 1, 2, \dots$

$P(Y > 3) = 1 - P(Y \leq 3)$

$= 1 - [P(Y=0) + P(Y=1) + P(Y=2) + P(Y=3)]$

$= 1 - \left[ \frac{e^{-2} 2^0}{0!} + \frac{e^{-2} 2^1}{1!} + \frac{e^{-2} 2^2}{2!} + \frac{e^{-2} 2^3}{3!} \right]$

$= 1 - e^{-2} \left[ \frac{2^0}{0!} + \frac{2^1}{1!} + \frac{2^2}{2!} + \frac{2^3}{3!} \right]$

$= 1 - \frac{19}{3} e^{-2}$

$= 0.1429$

12) c) Median is NOT affected  
 $Q_1$  is affected, so SIQR is affected  
 $Q_1 = 5.5$  now  $5.0 < 5.6$  so  $Q_1$  affected  
 $SIQR = \frac{1}{2} (6.55 - 5.5) = 0.525$  (not affected)  
So SIQR is affected.

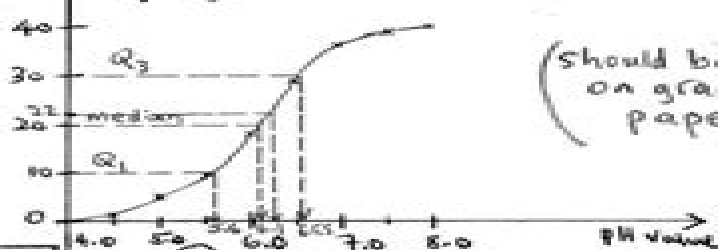
d)  $pH > 7$  has  $3 + 1 + 4 = 8$  sample  
 $q_0 = \frac{8}{44} \times 100\%$   
 $= 18.18\%$

e) median = 6.25  
Since curve is used  
Because the samples pH value are greater than 8.0 and the earlier cumulative value are NOT affected.

15.12.2010

12) pH Value	No. of Samples	UCB	Cumulative Freq	
4.0-4.5	1	$\leq 4.0$	0	
4.5-5.0	3	$\leq 4.5$	1	
5.0-5.5	5	$\leq 5.0$	4	
5.5-6.0	9	$\leq 5.5$	9	$Q_1$
6.0-6.5	11	$\leq 6.0$	18	
6.5-7.0	7	$\leq 6.5$	29	$m$
7.0-7.5	3	$\leq 7.0$	36	$Q_2$
7.5-8.0	1	$\leq 7.5$	39	
		$\leq 8.0$	40	

a) Cumulative Frequency



Median = 6.1  
 $Q_1 = 5.6$   
 $Q_3 = 6.55$   
Semi IQR =  $\frac{1}{2} (Q_3 - Q_1) = \frac{1}{2} (6.55 - 5.6) = 0.475$

# Form 6 Mathematics T Chapter Notes

**David Kirk**



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### **Table of Contents Form 6 Mathematics T Chapter Notes**

1. Understanding the eBook Form 6 Mathematics T Chapter Notes
  - The Rise of Digital Reading Form 6 Mathematics T Chapter Notes
  - Advantages of eBooks Over Traditional Books
2. Identifying Form 6 Mathematics T Chapter Notes
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Form 6 Mathematics T Chapter Notes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Form 6 Mathematics T Chapter Notes
  - Personalized Recommendations
  - Form 6 Mathematics T Chapter Notes User Reviews and Ratings
  - Form 6 Mathematics T Chapter Notes and Bestseller Lists

5. Accessing Form 6 Mathematics T Chapter Notes Free and Paid eBooks
  - Form 6 Mathematics T Chapter Notes Public Domain eBooks
  - Form 6 Mathematics T Chapter Notes eBook Subscription Services
  - Form 6 Mathematics T Chapter Notes Budget-Friendly Options
6. Navigating Form 6 Mathematics T Chapter Notes eBook Formats
  - ePub, PDF, MOBI, and More
  - Form 6 Mathematics T Chapter Notes Compatibility with Devices
  - Form 6 Mathematics T Chapter Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Form 6 Mathematics T Chapter Notes
  - Highlighting and Note-Taking Form 6 Mathematics T Chapter Notes
  - Interactive Elements Form 6 Mathematics T Chapter Notes
8. Staying Engaged with Form 6 Mathematics T Chapter Notes
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Form 6 Mathematics T Chapter Notes
9. Balancing eBooks and Physical Books Form 6 Mathematics T Chapter Notes
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Form 6 Mathematics T Chapter Notes
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Form 6 Mathematics T Chapter Notes
  - Setting Reading Goals Form 6 Mathematics T Chapter Notes
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Form 6 Mathematics T Chapter Notes
  - Fact-Checking eBook Content of Form 6 Mathematics T Chapter Notes
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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