

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

$Y \sim P_0(2)$

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

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

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

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

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

$= 1 - \frac{19}{3} e^{-2}$
 $= 0.1429$

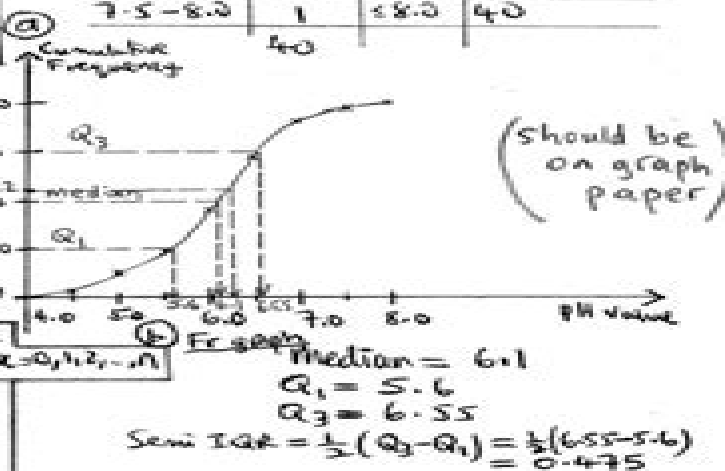
12) c) Median is NOT affected
 Q_1 is affected, so SIQR is affected
 $Q_1 = 5.5$ now $5.0 < 5.6$ so Q_1 affected
 $SIQR = \frac{1}{2} (6.55 - 5.5) = 0.525$ (not affected)
So SIQR is affected.

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	≤ 4.0	0	
4.5-5.0	3	≤ 5.0	1	
5.0-5.5	5	≤ 5.5	4	
5.5-6.0	9	≤ 6.0	9	Q_1
6.0-6.5	11	≤ 6.5	18	m
6.5-7.0	7	≤ 7.0	29	Q_2
7.0-7.5	3	≤ 7.5	36	
7.5-8.0	1	≤ 8.0	40	



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CH Cherryholmes



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