***************************************	· Selection of the sele
	prior distribution: P-51. n=51
	Before education: X1 Xn ~ Bernoullil 51), s= Zi=1Xi = 13
	posterior: fip x") & fip) In(p) = ps (1-p)
	fipix") = PIN+2) (SHI)-1 (1-p)(n-s+1)-1
	plx - Betal St1, n-St1) = Betal 14, 39) 138
	After education. We the betwee education Bota 14 290 04 prim
3 a 4 m1	POSTERION: flp x") + flp flp) = ps(+p)n-s. Plutte 0+ (+p)18+1, d=14.639
toa	POSTERION: f(p x") & f(p) f(p) = ps(+p) n-s. P(d+b) d+ (+p) pt, d= 14, b=9 - x - P(n+b) - x+s+ (-p) tn-s-1, -(1) S=50, n-5b
	plx" ~ Betail 0, b) = Betail x+s, &+ N-s) = Betail 64, 45).
Mark 2 1/4	Compare: Besides the visual comparison, I calculated the mean of
	the two Retail distributions I below,
15 O'The main	Beta (14,39) 14 = 14 = 02642 01-015-61 1= (11) T S=45
	Beton 64, 45): 104445 - 109 = 0.5872. 58 = 0.2793 Plxon teta
	There is an ingrease trend, after reducational program, so it was effective
	There is an increase trend, after reducational program, so it was effective in wearing gloves.
2.	XXn - Poisson(), Exitted 6+0+3=13, N=5
Phin	$P(x \lambda) = \frac{x^{e^{-x}}}{x!} \text{ bots like goinmax} = \frac{x^{e^{-x}}}{x!} e^{-nx}$ $P(x, y, \lambda) = \frac{x^{e^{-x}}}{x!} P(x; \lambda) = \frac{x^{e^{-x}}}{x!} e^{-nx}$
	$P(x, y_1 x) = \prod_{i=1}^{n} P(x_i x) = \prod_{i=1}^{n} \sum_{j=1}^{n} P(x_j x)$
hkenh	ord [1] (XIIII XII) & PIXIIII XII (XI) & X ZII XI E NX
	log (11x x1.xn)) = (1) x1.xn) = In xi log x - 2n xi log x - 2n xi log x - 2n
	dh a fixit-n =0. > f xi t -n=0.
	$\int_{-\infty}^{\infty} \frac{1}{2} \frac$
	posterior - Poisson likelihood + Gamma prior
	$d(\lambda^{2k}e^{-n\lambda})(\frac{\beta^{2}}{P(\omega)}\lambda^{2}e^{-\beta\lambda})$
	~ / Exitati f-1.1h+8).

=> posterior - XIXITO-1 e-xIntb) (n+B) [Xita] x |x" ~ Clamma (Zxi+a, n+ E). 1 Gammal 2+13, 6+5). Compare: 0=1, &=1, hammal (4, 6) a=2, B=1 Camma (15,6) d=3, p=1 Crammallb, b). The mean of Comma (4,6) is &, mean of Gamma (15,6) is & mean of chammal 16,6) is the three means are not the same, so the posterior distributions of these sets of parameters for the prior gamma distribution are not the same 3. XI... Xn Exponential (1) $f(x|x) = \lambda e^{-\lambda x}$, x>0. Works like gomma. $L(\lambda) = \pi \lambda e^{-\lambda x} = \lambda^n e^{-\lambda x} = \lambda^n e^{-\lambda x}$ Gamma Distribution: En hammald, (3) f(z)= Play Za-1 e- PZ, Z)0 f(x) x") & f(x). f(x) & Exponential likelihood x Gamma prior & xne-xxx: 30 x-1e-6x > 1 x" ~ Gammal dtn, B+ Exi)