



Problem $X \sim N(Mx, 2^n)$, $Y \sim N(Mx, 2^n)$ was should choose to minimize $n + m$? $N = n + m$ We should choose to minimize $n + m$? $N = n + m$ $N = 2k$	Problem	X~N (/lx,	Z,) \)[M, 3 ²]	want 95%	6 CI for 1	1x-Uz, length	n = 0.1	
$\frac{2x}{1.9b} = \frac{1.9b}{n^2} + \frac{2^2}{2^2} = 0.05$ $\frac{1.9b}{n^2} + \frac{2^2}{2^2} = \frac{0.05}{1.9b}$ $\frac{1.9b}{n^2} + \frac{3^2}{2^2} = \frac{1}{1000}$ $\frac{1.9b}{n^2} + $		what's the	sample size	n.m 1	we should	chorse to	minimize	n+m?	N=n+m
$ \frac{t^{2}}{n} + \frac{3^{2}}{m} \leq \left(\frac{0.05}{1.9b}\right)^{2} \approx \left(\frac{0.05}{4}\right)^{2} = \left(\frac{1}{4b}\right)^{2} = \frac{1}{1bv} $ $ \frac{t^{2}}{n} + \frac{3^{2}}{m} = \frac{1}{1bv} $ $ = \sum_{k=1}^{2} \frac{1}{bv} $ $ \frac{t^{2}}{n} + \frac{3^{2}}{m} = \frac{1}{1bv} $ $ = \sum_{k=1}^{2} \frac{1}{bv} $ $ \frac{t^{2}}{n} + \frac{3^{2}}{m} = \frac{1}{1bv} $ $\frac{t^{2}}{n} + \frac{3^{2}}{m} = \frac{1}{1bv} $						m = 3k	n	= 0x K	
$ \frac{t^{2}}{n} + \frac{3^{2}}{m} \leq \left(\frac{0.05}{1.9b}\right)^{2} \approx \left(\frac{0.05}{4}\right)^{2} = \left(\frac{1}{4b}\right)^{2} = \frac{1}{1bv} $ $ \frac{t^{2}}{n} + \frac{3^{2}}{m} = \frac{1}{1bv} $ $ = \sum_{k=1}^{2} \frac{1}{bv} $ $ \frac{t^{2}}{n} + \frac{3^{2}}{m} = \frac{1}{1bv} $ $ = \sum_{k=1}^{2} \frac{1}{bv} $ $ \frac{t^{2}}{n} + \frac{3^{2}}{m} = \frac{1}{1bv} $ $\frac{t^{2}}{n} + \frac{3^{2}}{m} = \frac{1}{1bv} $		5× =	1,76 , E=	0.01		N=5K	m	1=0y-k	
$ \frac{t^{2}}{n} + \frac{3^{2}}{m} \leq \left(\frac{0.05}{1.9b}\right)^{2} \approx \left(\frac{0.05}{4}\right)^{2} = \left(\frac{1}{4b}\right)^{2} = \frac{1}{1bv} $ $ \frac{t^{2}}{n} + \frac{3^{2}}{m} = \frac{1}{1bv} $ $ = \sum_{k=1}^{2} \frac{1}{bv} $ $ \frac{t^{2}}{n} + \frac{3^{2}}{m} = \frac{1}{1bv} $ $ = \sum_{k=1}^{2} \frac{1}{bv} $ $ \frac{t^{2}}{n} + \frac{3^{2}}{m} = \frac{1}{1bv} $ $\frac{t^{2}}{n} + \frac{3^{2}}{m} = \frac{1}{1bv} $		1.96N	$\frac{r^{2}}{n} + \frac{3^{2}}{m}$	≤ 0.05		m+n=8k=	82×1600		
To magnimize $\frac{\zeta^{2}}{m} + \frac{3^{2}}{m} = \frac{1}{1600}$ $= \sum_{K} \frac{\zeta^{2}}{m} + \frac{3^{2}}{3K} = \frac{1}{1600}$ $= \sum_{K} \frac{\zeta^{2}}{m} + \frac{3^{2}}{3K} = \frac{1}{1600}$ $= \sum_{K} \frac{\zeta^{2}}{m} + \frac{3^{2}}{N} = \frac{1}{1600}$ $= \sum_{K} \frac{\zeta^{2}}{m} + \frac{3^{2}}{N} = \frac{1}{1600}$ $= \sum_{K} \frac{\zeta^{2}}{m} + \frac{\zeta^{2}}{N} = \frac{1}{1600}$ $= \sum_{K} \frac{\zeta^{2}}{m} + \frac{\zeta^{2}}{m} = \frac{1}{1600}$ $= \sum_{K} \frac{\zeta^{2}}{m} + \frac{\zeta^{2}}{m} = \frac$									
$\frac{\zeta^{2}}{N} + \frac{3^{2}}{M} = \frac{1}{1600}$ $\Rightarrow \sum_{K} + \frac{3^{2}}{3K} = \frac{1}{1600},$ $\frac{\zeta}{K} + \frac{3}{2} = \frac{1}{1600},$ $\frac{\zeta}{K} + \frac{3}{2} = \frac{1}{1600}$ $\frac{\zeta}{K} = \frac{3^{2}}{1600} = \frac{1}{1600}$ $\frac{\zeta}{K} = \frac{1}{1600}$ $$		To section	mize m	< (1.9b)	≈ (- >)	= (4) =	(40) - 16vo		
$= \frac{1}{2} + \frac{3^2}{3k^2} = \frac{1}{16\pi 0},$ $= \frac{1}{16\pi 0}$ $= $		70 ,000 (1)	F2 32	= 16mp					
$\frac{1}{1000} = \frac{1}{1000}$									
$K = \frac{1}{16\pi 0}$ $K = 8 \times 16\pi 0$ $K = 8 \times 16\pi 0$ $\frac{3}{16\pi 0} = \frac{5}{16\pi 0}$		=>	ZK + 31	= 1500 ,					
$K = \frac{1}{16\pi 0}$ $K = 8 \times 16\pi 0$ $K = 8 \times 16\pi 0$ $\frac{3}{16\pi 0} = \frac{5}{16\pi 0}$			<u> </u>			N=n+m	52 32		
$K = \frac{1}{16\pi 0}$ $K = 8 \times 16\pi 0$ $K = 8 \times 16\pi 0$ $\frac{3}{16\pi 0} = \frac{5}{16\pi 0}$							N N-N =	pro Oad	
$\frac{1}{(N-m)^2} = \frac{1}{N^2}$, $\frac{1}{N-m} = \frac{1}{N}$						0	$\frac{ N }{ N } : -\frac{ N_2 }{ T_2 } + \frac{ V }{ V }$	FN) - (+1)	= 0
			K = 8 x	1600			2 52	3 - 5	N-n = n
						(/	νη, Ντ ,	/ori M	m = n = K