	Z-CI for Population Proportion	
	1. $\hat{\rho} = 111 = 0.74$ claim: $\rho = 0.85$ verify the	
	1. $\hat{p}=111=0.74$ claim: $p=0.85$ verify the claim using $n=150$ the sample	
	n=150 the sample	
	Z0A5 = 1.96	
	$0.00 + 7* \sqrt{0.01-0.00}$ 074+ 10/5/(074)(0.74)	
	α . $\hat{\rho}^{\pm} z^{*} \sqrt{\hat{\rho}(1-\hat{\rho})} = 0.74 \pm 1.96 \sqrt{0.74}(0.26)$	
	= 0.74± 0.0702	
	(01.7 091)	
	= (0.67, 0.81) (5)	
0	We are 95% confident that the interval	
	(0.67, 0.81) contains the true proportion of seeds that germinate under normal conditions.	
	of seeds that germinate under normal	
	conditions.	
	b. p=0.74 d. Zops=196	
	b. $\rho = 0.74$ d. $Z_{0.95} = 1.96$ c. $\sqrt{\hat{\rho}(1-\hat{\rho})} = 0.0358$ e. 0.0702	
	f. The interval does not contain 0.85 so	
	the data does not support the company's claim.	

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0	
	2, n=1000
	$\hat{\rho} = 120 = 0.12$
	1000
	Z*0A9 = 2.576
	$a. \hat{\rho} \pm 2.576 / (0.12)(0.78) = 0.12 \pm 0.025$
	= (0.095, 0.145)
	we are 99% confident that the interval (0.095, 0.145) contains the true proportion of people with blood type B.
	b. 0.025 C. $n = (z^*)^2 \hat{\rho}$. $(1-\hat{\rho}) = (9.576)^2 (0.12)(0.78) = 1552.8$ New margin of error = 0.02 $n = 1553$
	3. $n=400$ $\hat{\rho} = 320 = 0.55$ 400 $Z_{0.90}^{*} = 1.64$ 0.02408 $C. n = (1.64)^{2}(0.55)(0.45) = 739.64 0.03$
0	4. $N = (1.96)^2 (0.65)(0.35) = 1398.34$ (0.025) $N = 1399$