## PSYC 2317 - Hw #8 Solutions

#1) 95°1. C1 = 35.2 ± 2.064. 
$$\frac{4.14}{\sqrt{25}}$$
 = 35.2 ± 1.71 = (33.49, 36.91)

(c) incressed sample size 
$$\rightarrow$$
 better precision (i.e, smaller (1))

#3 
$$D = 3$$
,  $\partial_D = 2.45$   
50 95%,  $C1 = 3 \pm 2.571 \cdot \frac{2.45}{\sqrt{6}} = 3 \pm 2.57 = (0.43, 5.57)$ 

#5 
$$\hat{\sigma}_{p} = \sqrt{\frac{510 + 414}{14 + 14}} = 5.74$$

50 95% C1 =  $(40.8 - 34.0) \pm 2.048.5.74 \sqrt{\frac{1}{15} + \frac{1}{15}}$ 

=  $6.8 \pm 4.29 = (2.51, 11.09)$