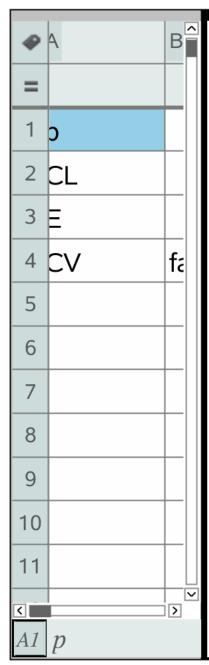|	A	B
=		
1	p	
2	CL	
3	E	
4	CV	not
5		
6		
7		
8		
9		
10		
11		

A1 p

2) Given p =0.825

p implies q=1−0.825 =0.175

E =0.025

CL =0.64

CL implies alpha =0.36 and half alpha =0.18

CV = 0.915365 **(NOT famous)**

=invnorm(0.18 ,0,1)

$$\mathbf{n =[(0.915365)^2 (0.825)(0.175)]/(0.025)^2}$$

=193.553

WE ALWAYS ROUND THIS UP TO NEXT INTEGER!

=194.

$$n=\frac{(0.92)^2 \cdot 0.825 \cdot 0.175}{(0.025)^2} \quad \blacktriangleright 195.518 = 196.$$

	A	B
=		
1	p	
2	CL	
3	E	
4	CV	fa
5		
6		
7		
8		
9		
10		
11		

A1 p

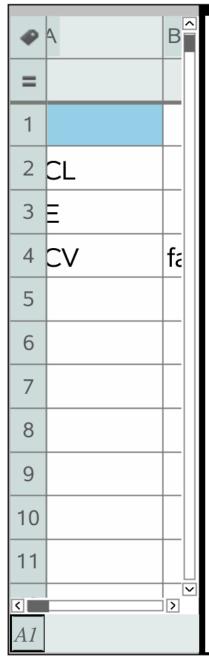1) Given p =0.75

p implies q=1−0.75 =0.25

E =0.04

CL =90.

CL implies alpha =-89. and half alpha =-44.5

CV = 1.645 **(famous)**

$$n = [(1.645)^2 (0.75)(0.25)]/(0.04)^2$$

=317.112

WE ALWAYS ROUND THIS UP TO NEXT INTEGER!

=318.

$$n = \frac{(1.645)^2 \cdot 0.75 \cdot 0.25}{(0.04)^2} \blacktriangleright 317.112 = 318.$$

	A	B
=		
1		
2	CL	
3	E	
4	CV	fa
5		
6		
7		
8		
9		
10		
11		

A1

3) Given p =**UNKNOWN**

E =0.076

CL =0.95

CL implies alpha =0.05 and half alpha =0.025

CV = 1.96 **(famous)**

$$\mathbf{n} = [(1.96)^2 (0.25)]/(0.076^2)$$

=166.274

WE ALWAYS ROUND THIS UP TO NEXT INTEGER!

=167.

	A	B
=		
1		
2	CL	
3	E	
4	CV	not f
5		
6		
7		
8		
9		
10		
11		

A1

4) Given p =**UNKNOWN**

$E = 0.04$

$CL = 0.58$

CL implies alpha $= 0.42$ and half alpha $= 0.21$

CV = 0.806421 **(NOT famous)**

$= \textbf{invnorm}(0.21\, ,\textbf{0},\textbf{1})$

$\mathbf{n} = [(0.806421\,)^2 (0.25)]/(0.04\,)^2$

$= 101.612$

WE ALWAYS ROUND THIS UP TO NEXT INTEGER!

$= 102.$

$$n - \frac{(0.81)^2 \cdot 0.25}{(0.04)^2} \blacktriangleright 102.516 = 103.$$