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

A1 p

1) Given p =0.725

p implies q=1−0.725 =0.275

E =0.02

CL =0.95

CL implies alpha =0.05 and half alpha =0.025

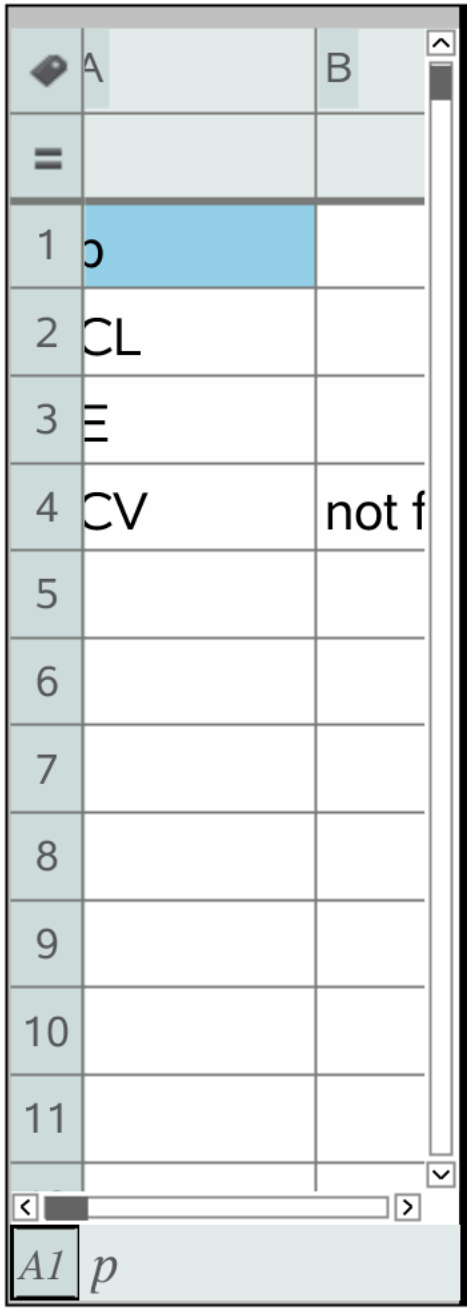
CV = 1.96 **(famous)**

$$n = [(1.96)^2 (0.725)(0.275)]/(0.02)^2$$

$$= 1914.8$$

WE ALWAYS ROUND THIS UP TO NEXT INTEGER!

$$= 1915.$$



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

A1 p

p implies q=1−0.65 =0.35

E =0.05

CL =0.88

CL implies alpha =0.12 and half alpha =0.06

CV = 1.55477 **(NOT famous)**

=invnorm(0.06 ,0,1)

n =[(1.55477)^2 (0.65)(0.35)]/(0.05)^2

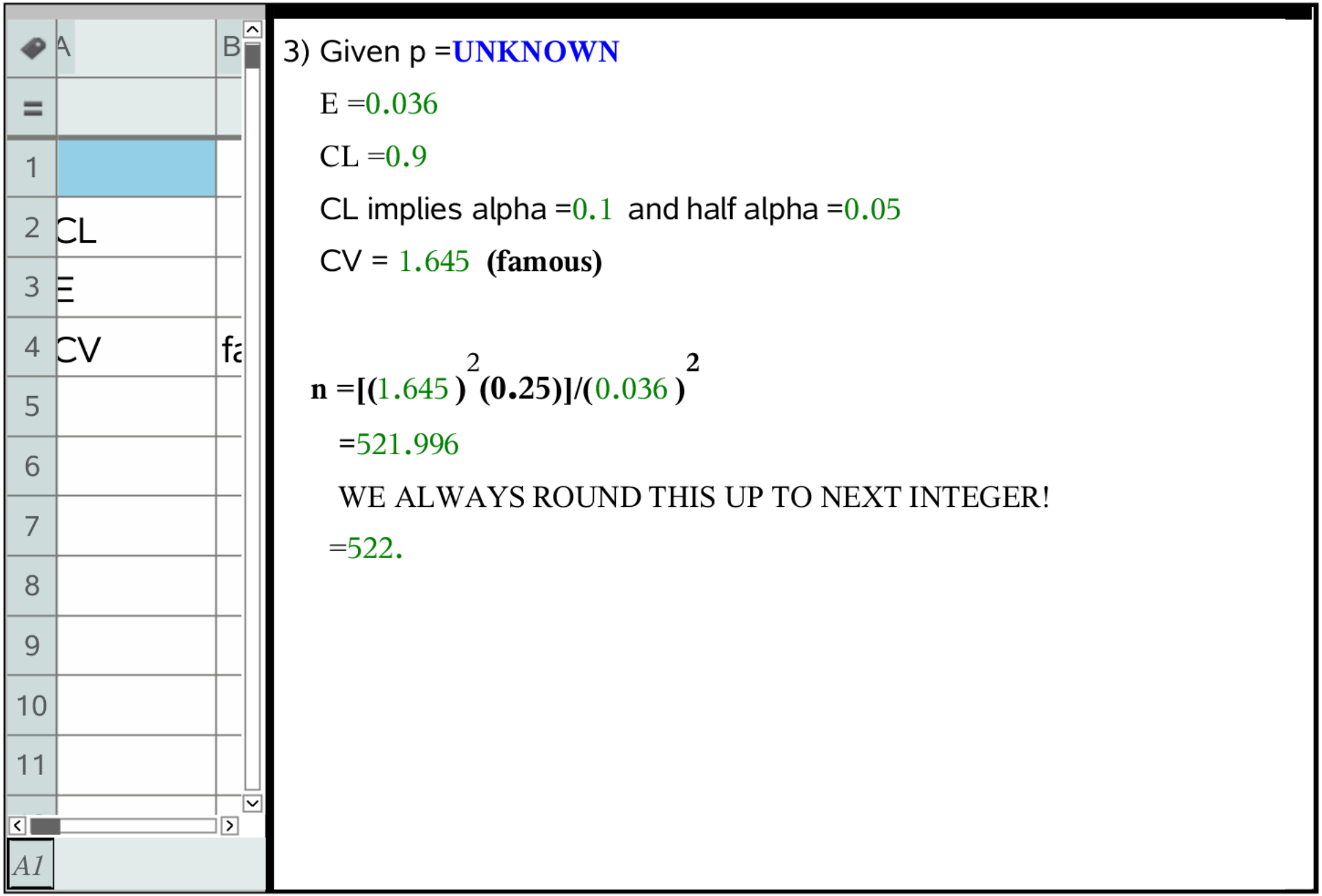
=219.976

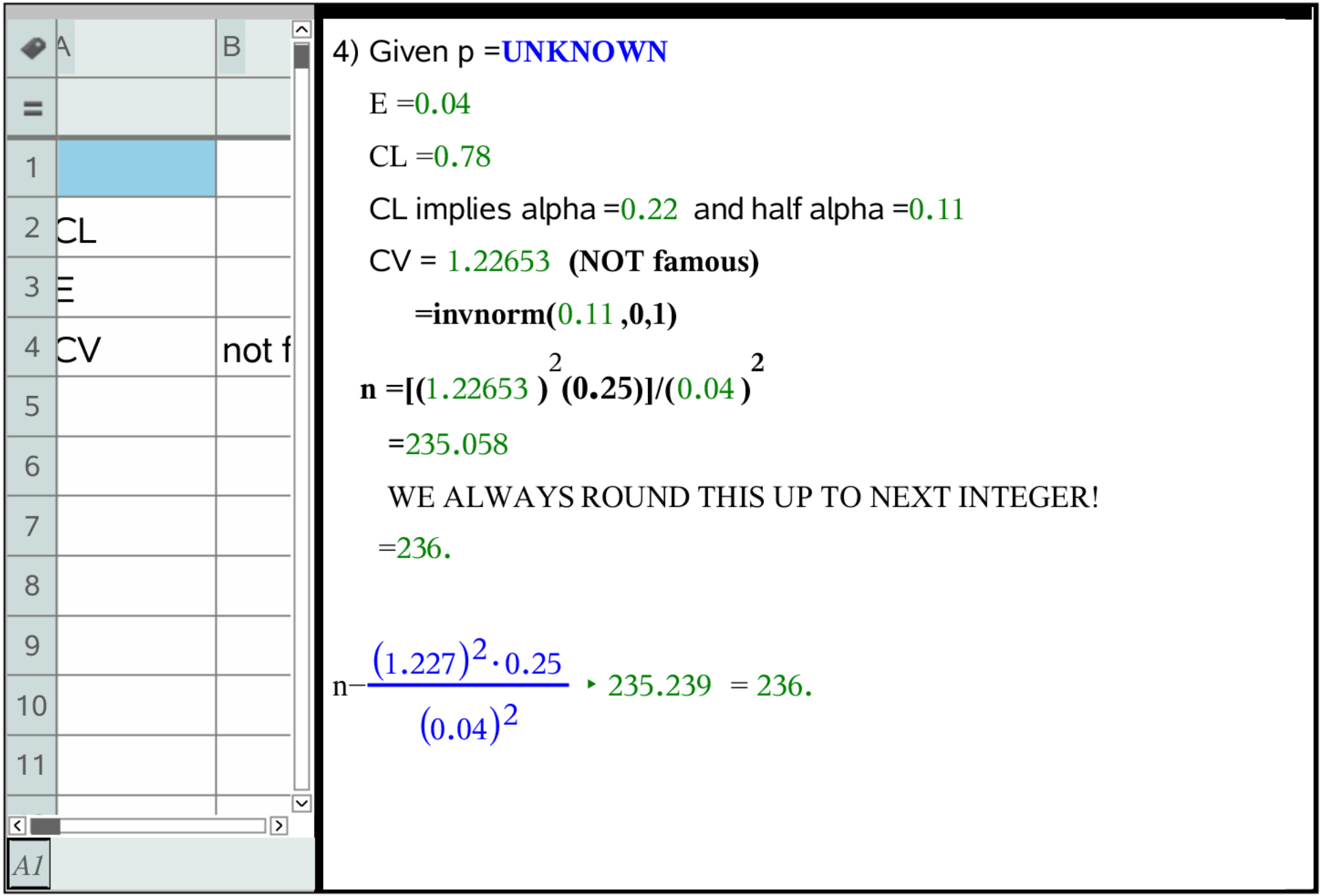
WE ALWAYS ROUND THIS UP TO NEXT INTEGER!

=220.

$$n=\frac{(1.555)^2\cdot 0.65\cdot 0.35}{(0.05)^2} \blacktriangleright 220.04 = 221.$$

$$n=\frac{(1.55)^2\cdot 0.65\cdot 0.35}{(0.05)^2} \blacktriangleright 218.628 = 219.$$


A
B
1
2 CL
3 E
4 CV fa
5
6
7
8
9
10
11
A1
3) Given p =UNKNOWN
E =0.036
CL =0.9
CL implies alpha =0.1 and half alpha =0.05
CV = 1.645 (famous)
n =[(1.645)^2 (0.25)]/(0.036)^2
=521.996
WE ALWAYS ROUND THIS UP TO NEXT INTEGER!
=522.


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 =0.78
CL implies alpha =0.22 and half alpha =0.11
CV = 1.22653 (NOT famous)
=invnorm(0.11 ,0,1)
n =[(1.22653)^2 (0.25)]/(0.04)^2
=235.058
WE ALWAYS ROUND THIS UP TO NEXT INTEGER!
=236.
n=(1.227)^2·0.25/(0.04)^2 ▸ 235.239 = 236.