In [1]:	<pre>from scipy.stats import norm</pre>
In [2]:	1-norm.cdf((1850-1800)/(100/np.sqrt(50)))
Out[2]:	0.00020347600872250293
In [3]:	1-norm.cdf(x=1850,loc=1800,scale=(100/np.sqrt(50)))
	0.00020347600872250293
In [4]:	1-norm.cdf(x=1900,loc=1800,scale=(100/np.sqrt(5)))
	0.0126736593387341
In [5]:	norm.ppf(0.95)
	1.6448536269514722
In [6]:	1800 + (norm.ppf(0.95)*(100/np.sqrt(50)))
	1823.2617430735336
In [7]:	norm.ppf(0.99)
	2.3263478740408408
In [8]:	1800 + (norm.ppf(0.99)*(100/np.sqrt(50)))
	1832.8995271426638
In [9]:	1800 + (norm.ppf(0.95)*(100/np.sqrt(5)))
	1873.5600904580115
In [10]:	1800 + (norm.ppf(0.99)*(100/np.sqrt(5)))
	1904.0374397133487
In []:	
In []:	
In []:	

In []:

In []: